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THE MIGRANT

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A QUARTERLY JOURNAL
DEVOTED TO TENNESSEE BIRDS

PUBLISHED BY
THE TENNESSEE
ORNITHOLOGICAL
SOCIETY

JUNE 1992
VOL. 63, NO. 2

THE MIGRANT

A QUARTERLY JOURNAL OF ORNITHOLOGY

FIRST ISSUE PUBLISHED IN JUNE 1930

PUBLISHED BY

THE TENNESSEE ORNITHOLOGICAL SOCIETY

Founded at Nashville, Tennessee on 7 October 1915
The T.O.S. is a non-profit, educational, scientific,
and conservation organization.

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Published quarterly (March, June, September, and December).
Printed by Mallicote Printing Inc., 509 Shelby Street, Bristol, TN 37620.

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ISSN 0026-3575

Ben B. Coffey, Jr. and Lula C. Coffey
of Memphis, Tennessee

THE MIGRANT

Published by the Tennessee Ornithological Society,
to Record and Encourage the Study of Birds in Tennessee.
Issued in March, June, September, and December.

VOL. 63 June 1992 NO. 2

The Migrant, 63 (2): 25-38, 1992.

BEN B. COFFEY, JR. ELECTED FELLOW IN THE AMERICAN ORNITHOLOGISTS' UNION

James A. Ferguson
5400 Kimbark Road, Memphis, TN 38134

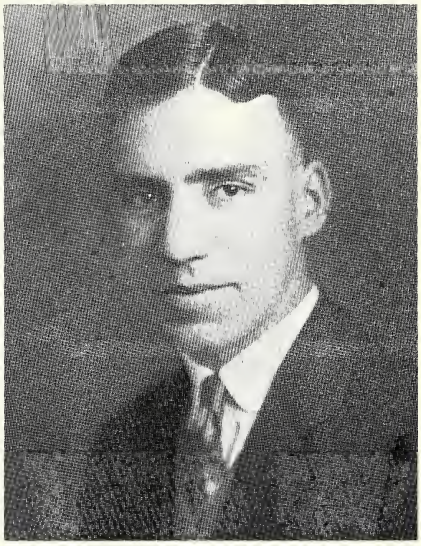
Ben B. Coffey, Jr., of Memphis, a member of the Tennessee Ornithological Society for 66 years, was elected a Fellow by the American Ornithologists' Union at the 1991 Annual Meeting. This honor is a fitting capstone to a lifetime of contributions to the body of knowledge of the birds of Tennessee, the Mid-South, and the Americas. Only the second Fellow to be chosen from Tennessee, Ben's election is a special point of pride for members of the TOS, especially the great majority who are his fellow amateur birders. Ben does not have a degree in ornithology, biology or other natural science. His vast store of knowledge of birds and the world of nature was acquired by study and assimilation of available information and years of careful field work.

A self-described "bird student" for more than seventy years, Ben has made significant contributions to our knowledge of the birds of the Americas. Among his best known achievements is the banding of 113,000 Chimney Swifts *(Chaetura pelagica)* to help solve the mystery of their wintering grounds. He also broke new ground on heron migration with his banding project. His 28 years of recording bird songs in the U.S., Mexico, and South America made his name well known throughout the ornithological world.

Ben's work greatly expanded the horizons of birding in the Mid-South. His 60 years of records of the birds of West Tennessee and neighboring states are remarkably complete. His distributional studies of nightjars in the Mid-South verified ranges and expansion patterns over a 30 year period.

Ben has actively participated in the affairs of the Society all the years of his membership, rarely missing a meeting. He has served the Society as President and as Editor of *The Migrant*. Ben was a co-founder of the Memphis Chapter, the first President, and Curator for 58 years. He has freely shared his wealth of knowledge at ornithological and conservation meetings and by contributions to journals.

Born in Nashville on 28 April 1904, Ben was introduced to birding working on the Boy Scout's Bird Study Merit Badge. He attended Vanderbilt University and Armour (now Illinois) Institute of Technology in Chicago to study Fire Protection Engineering. It was near Chicago on Christmas Day, 1925 where he made his first Christmas count — in six degree weather, in eight inches of snow, without binoculars. At noon he had to return to the train station to thaw the apple and Hershey bar that had frozen in his pocket. His eight hours in the field produced nine species.



AT LEFT — Ben Coffey was introduced to bird study while working on the Boy Scout Bird Study Merit Badge. He received the Silver Beaver Award (shown) in 1934.

ABOVE — Ben Coffey in 1925, the year he made his first Christmas Count at Chicago, Illinois.

Ben returned to Nashville in 1926 to work with the Tennessee Inspection Bureau. With newly acquired binoculars, Ben became a member of the TOS and resumed his volunteer Scout work. He joined Harry Monk and Dr. George Mayfield, Sr., for the Christmas count at Radnor Lake on 26 December 1926. They recorded the White-eyed Vireo *(Vireo griseus)* — the first and last time it was recorded on the Nashville Christmas count.

The Bureau transferred Ben to Memphis in January 1928. Both Albert F. Ganier and George Mayfield encouraged Ben to take up the study of bird life in the Memphis region, an area little reported on heretofore. Ben travelled by trolley, train, and on foot to bird the sand hills on the Wolf River at Raleigh, the "Piney Woods" south of Memphis and the major city parks. Living at the YMCA, Ben became Scoutmaster of Troop 1, which met there. He made the 1928 Christmas Count by himself, but thereafter Eagle Scouts became a mainstay of the early counts.

1930 was an eventful year for Ben. In January a small group met at the YMCA to form the Memphis Chapter of TOS, with Ben the first President. Of the 10 charter members, Ben, Jack Embury, and Mary Davant would still be active birders 60 years later.

But of far greater consequence was a boating trip on the Mississippi to check terns nesting on the Loosahatchie sandbar. Ben invited a young lady named Lula to accompany him. While returning from the outing, the motor sputtered and died, and they had to pole their way back to the landing, arriving home long after midnight. From such inauspicious beginnings came the wedding of Ben and Lula on

17 November 1930.

Lula Evelyn Cooper was raised on a farm on the Tippah River about six miles north of Hickory Flat, Mississippi, a hamlet between Holly Springs and New Albany. She grew up in a family attuned to the outdoors — to the birds and "critters" which were part of their everyday experience. After finishing Hickory Flat High School, Lula moved to Memphis to work with Western Union Telegraph Company. When invited on the boat trip by Ben, Lula imagined an idyllic afternoon's interlude, and had no idea the trip was to photograph and make notes on terns!

Thus began the lifelong birding expedition of Ben and Lula Coffey, a husband and wife venture without parallel within the TOS, and perhaps anywhere. Their explorations have taken them through the backroads of the Mid-South, across the United States, and along many byways of Mexico, Central and South America. Birding trips to the Galapagos, Canada, Australia, New Zealand, the Fiji Islands, India, and Nepal have generated a store of anecdotes to match any peripatetic traveler's tales.

Their travels have not been just a lark; rather they have produced a wealth of solid, scholarly data, and an incredible collection of recordings. Remarkably, it is all done on their own — no grants, stipends, or university sponsors, just two amateur birders off to study and enjoy the wonders of the world and its birds, and the journey is still underway.

THE GREAT BANDING PROJECTS

It is recognized that amateur birder's observations have contributed the bulk of knowledge to the field of ornithology. From Memphis came one of the most ambitious bird banding programs of the century. In 1932, the winter home of the Chimney Swift was still unknown. Late each Fall, the swifts would simply disappear to the South. Hope was high to discover the swift's winter range through returns from the banding programs underway in the U.S. Locally, under Ben's leadership, a small group made up of members of the Memphis Chapter and a number of Scouts had taken up the challenge of trapping and banding massive numbers of swifts at locations around Shelby County. After catching the birds in traps installed at schools, businesses, and factories, quick work was needed to prevent suffocation. Ben and helpers retrieved; Lula and helpers banded. Lula has undoubtedly banded more swifts than any other person. When the project was interrupted in 1942 by Ben's leaving for the Army, Lula took charge and finished the year's banding, joining Ben at Fort Sill, Oklahoma, a year later.

In 1943, 13 bands recovered from Indians living on the Yanayacu River in the Amazon Basin of eastern Peru were passed on to the American Embassy at Lima. When the bands made their way to the U.S., they were identified as coming from swifts banded in the U.S. between 1936 and 1940. Five of the 13 had been placed at Ben's banding stations. The mystery had been solved.

Ben continued the swifts project until 1959. By then over 106,000 swifts had been banded at 51 locations in Shelby County, with an additional 7,000 banded by Ben and Lula in Louisiana, Arkansas and Alabama. At the conclusion of the project, the upper Amazon River had been confirmed as the wintering range of the Chimney Swift, several articles had been published by Ben on various aspects of the project, and Lula had written an article for *Bird Banding*, analyzing weights of more than 1900 swifts studied over a six year period.

Less dramatic in numbers, but also a major undertaking, was the heron banding project in the 1930's. Working in the Yazoo-Mississippi Delta area, the Coffeys and their helpers banded 1,530 Anhingas and 15,000 Great Egrets, Little Blue Herons, Snowy Egrets, and Yellow-crowned Night Herons. The hazards of working in hot, steamy swamps included mosquitos, snakes, and the quick jabs of very sharp bills. Furthermore, working under trees filled with large birds required a suitable hat, a watchful eye, and a good sense of humor.

The return of the bands revealed considerable post-juvenal heron "reverse migration" northward from the heronry, then southward around the Texas and Mexican coasts, and as far as Colombia, South America. The recovery of two banded Anhingas in Palizada, Campeche and Villa Azueta, Veracruz established the wintering grounds for the Anhinga in Mexico.

The "Coffey Grounds," Ben and Lula's Memphis home on North Belvedere, has been his banding station since 1935. The location was selected because of the great birding potential of the large lot situated between a drainage bayou and a wide railroad right-of-way. The multitude of trees, shrubs and native plants gives the impression of a combination arboretum and wildlife refuge. In 65 years of banding at the Coffey Grounds, Ben has accumulated valuable data on the changing characteristics of Mid-South residents and the migrants of the Mississippi Flyway.

Ben maintains membership in the Inland Bird Banding Association and has written numerous articles for its journal. His banding permit, issued by the U.S. Fish and Wildlife Service in 1928, is number 03785, one of the oldest permits still active in the United States!

RECORDING THE BIRD CALLS OF THE AMERICAS

Ben and Lula spent almost every vacation birding in Mexico from 1946 to 1968. After Ben's retirement in 1969, Ben and Lula were able to enjoy extended trips south. Fifteen trips to Peru, Colombia and Ecuador would be made over the next two decades. Never losing their love for Mexico, they returned many times, including leading groups of birders from Memphis to retrace routes explored on earlier trips.

Few texts and no field guide on Mexican birds were available for their first trip in 1946. To prepare, Ben and Lula turned for advice and assistance to several of Ben's former Scouts at the Museum of Zoology, Louisiana State University. Using LSU's Mexican bird skin collection and accompanying information, they compiled their own field guides in looseleaf notebooks. Since only black-and-white illustrations were available, they later made color slide transparencies of the skins to use in the field with a handheld viewer as an aid to identification.

Ben began recording bird calls in 1964 with a reel-to-reel recorder and a parabolic reflector he constructed. His collection of tropical bird calls focuses on Mexico, Colombia, Ecuador and Peru. For many years Ben's recordings were the most complete available from Colombia. In 1981 a cassette, *Bird Songs and Calls from Southeast Peru*, was produced by Ben and Lula from work at Explorer's Inn in the Tambopata Nature Reserve and at Puerto Maldonado. Revisions were issued in 1984 and 1988. *Songs of Mexican Birds, Volumes 1 and 2*, were produced in 1986 and contain songs of 246 species.

Ben and Lula are Field Associates in Ornithology and Bio-acoustics at Florida State University, Florida State Museum. The bulk of Ben's recordings are in the Coffey Neotropical Collection in the Museum archives. Most of the cassette tapes

and LP records privately published by Dr. John William Hardy, the Curator, contain a large number of Ben's recordings, particularly *The Wrens*, *Voices of New World Nightbirds* and *Owls*. Both Disney and Busch Gardens have purchased his recordings, and he has furnished tapes for use in television and movie productions. Working alone, he has accomplished all this without elaborate technical equipment. His "sound studio" for all his production work is the dining room table!

Ben has steadfastly turned aside requests from groups and individuals to assemble collections of songs for specific states and sections of the Mid-South. Since recordings of birds of these areas already exist, he contends that his time can best be spent working on his tropical tapes.

The most significant legacy of Ben and Lula's recordings may be in the crucial area of saving Neotropical species. To honor the Coffeys' many decades of field work within the state, the Arkansas Audubon Society paid for the publication of *Cantos de Aves Mexicano*, containing songs of 60 species recorded by Ben and Lula and narrated in Spanish. These tapes, published in Mexico City by Pro Natura, were sent to ornithologists at universities and to schools in Mexico to help raise the consciousness of students to the country's avifauna. The tapes could be the stimulus for many future birders and conservationists in Mexico, much as the scout work spawned a great number of dedicated Mid-South birders.

SCOUTING FOR THE BIRDS

Ben's love of birding and Scouting combined to influence the development of many accomplished Scout birders in the Memphis area. Ben surmised that the easiest and best way for anyone to learn birds was to be taught in the field by someone who knew them well. In Nashville he had led hikes at summer camps. In Memphis he and Lula often took a carload of interested Scouts for Saturday and Sunday hikes. After several years, circumstances left Ben the only examiner for the Bird Study Merit Badge. Short on available time, Ben trained some of his older, more knowledgeable Eagle Scouts to lead hikes and eventually even conduct preliminary examinations.

Ben advised and encouraged Scouts to enjoy birding for its own sake. Careers in ornithology were very limited in those early days, but birding could be enjoyed anywhere, anytime, for the rest of their lives. Ben laments the dropping of bird study as a requirement for Eagle Scout, believing that if candidates had to actually learn elementary bird study most could not help but become further interested.

In 1934 Ben received the Silver Beaver Award, the highest award given at the Council level in recognition of service to youth. Lula, by then an accomplished birder, was an Honorary Member of Troop One, and active in the troop's birding activities.

Fifteen Eagle Scouts participated on the 1936 Christmas count. Directed by Ben, these Scouts and members of the Memphis Chapter of TOS did the bulk of the field work in Memphis, operated backyard banding stations, assisted in the noted swift and heron banding projects, and contributed data and articles to *The Migrant*.

The Scouts who worked in the birding program came to be know as "Ben's Boys." Each year during Christmas holidays a reunion was held at the Coffey Grounds, to reminisce and share new experiences. Many of these young men went on to become leaders in their professions, a few in fields related to the outdoors and ornithology. Whatever their other achievements, there can be no doubt that these former Scouts

treasure memories of their early birding days in Memphis with Ben and Lula.

AT WORK IN THE FIELDS OF THE MID-SOUTH

Ben and Lula have a combined total of more than 140 years birding! The data collected on Mid-South birds is truly amazing. As Curator of the Memphis Chapter for almost 60 years, Ben compiled a volume of data in West Tennessee remarkable for its consistency and thoroughness. These data were the basis for the publication of *Seasonal Occurrences of Shelby County, Tennessee Birds*, by Martha Waldron, which provides general arrival and departure dates of transients and seasonal residents. The population densities given for each species also provides the reader with a degree of expectation of sighting a species in any given month of the year.

The hallmark of Ben's records is accuracy and integrity. As Curator, his insistence on positive identification and persistence in eliminating questionable data has ruffled more than one birder's feathers, but has made the Memphis Chapter's records a highly reliable source for research. While Ben is sometimes an intimidating legend for beginning birders, Lula is the great mother hen of the Chapter. Her sincere enthusiasm and warmth immediately communicate to visitors an individual interest in them and a welcome to the group. Her interaction with new members nurtures their curiosity and encourages their participation.

Through 1991, Lula had participated in 192 Christmas counts and Ben in 232. These counts are mostly within 100 miles of Memphis. During his 3-1/2 years service in the Army, Ben made nine Christmas counts, including two in India, without any time off from his regular duties. The 1942 count at Norfolk, Virginia almost landed him in trouble when his return to camp was delayed by a train wreck on the line. After catching a ride on a schoolbus, a final dash by taxi got him back to the barracks just minutes before roll call. In 1944 he made the early San Francisco count, then participated in the Palo Alto count on 23 December, and following a 23 hour trans-continental flight, made the Mill Neck, Long Island, New York, count on Christmas Day, followed by the Bronx-Westchester Region Count with Lula!

The Coffey Grounds was the gathering place for tired but enthusiastic birders on the evening of the Memphis Christmas count during the 59 years Ben served as compiler. Lula's refreshments were a welcome restorative after the long day in the field. To Ben, Christmas counts are not leisurely hikes, but a day of birding at full tilt regardless of the weather. No Memphis Christmas count has ever been postponed due to weather conditions, although a 13 inch snow came close to ruining the record.

Ben and Lula made runs on 19 Breeding Bird Survey routes in Mississippi, seven in Tennessee and one in Arkansas. All together, they have run about 120 routes. During 1975 through 1980 an annual six-day trip was made to provide a base for data comparison on five Breeding Bird Survey routes in Mississippi.

Tracking the summer distribution of the Whip-poor-will *(Caprimulgus vociferus)* and Chuck-wills-widow *(Caprimulgus carolinensis)* has been an on-going activity for Ben and Lula for more than 40 years. All-night surveys throughout West Tennessee and ranging as far as Central Mississippi and East Oklahoma, provide a comprehensive record of "Whips and Chucks." These studies revealed the expansion of the Whip-poor-will in Mississippi and verified the known range of the bird in Arkansas and Oklahoma. Much of the results of the nightjar study remains unpublished.

Lula and Ben made the first recorded observations of many species in the Memphis area. To document the presence of pipits, longspurs, LeConte's Sparrows

(Ammodramus leconteii) and Short-eared Owls *(Asio flammeus)*, miles of short-grass fields were combed on many Mid-South airports and similar plots. Other endeavors were special studies of several species, including the Rufous-sided Towhee *(Pipilo erythrophthalmus)* and the Cliff Swallow *(Hirundo pyrrhonota)*, with the findings published in *The Migrant*.

Ben served as Editor of *The Migrant* from 1938 into 1942, when he enlisted in the Army. Both Ben and Lula have served as President of the Memphis Chapter and of the Society. Ben was State President 1932-1934, and Lula 1949-1951, the first woman to hold the office. While president, Ben initiated the Society's project that resulted in the popular election of the Northern Mockingbird *(Mimus polyglottos)* as the Tennessee State Bird.

Ben has written extensively to share his findings and observations and to generate interest in birds and the TOS. He authored a weekly nature column in the Memphis *Evening Appeal* newspaper in 1932 and 1933. Writing in a terse, almost "telegraphic" style, he has contributed many articles to *The Migrant* as well as to *The Auk*, *Bird-Banding* and numerous other journals and publications. He was instrumental in starting the "Seasons" section of *The Migrant*, which first appeared in 1932 in the "Roundtable" of the journal and continued until 1940 when it became a regular part of the journal.

From 1952 to 1956 Ben published the mimeographed "Mid-South Bird Notes" at his expense. The Notes covered bird life within 150 miles of Memphis and provided "birding information" to interested people in Arkansas and Mississippi as well as Tennessee.

Ben is a life member of the American Ornithologists' Union, the Wilson Ornithological Society, the Nature Conservancy and the Wilderness Society. The active involvement of Ben and Lula in ornithological and conservation societies in Tennessee, Mississippi and Arkansas and memberships for many years in birding organizations in Alabama, Louisiana, Georgia, Texas and Oklahoma are evidence of their continuing involvement and support. Many other local conservancies and environmental organizations are also supported by the Coffeys.

Ben and Lula have been honored by the TOS with its Distinguished Service Award and recognized by other birding and conservation groups. Far from resting on their laurels, both remain busily occupied. The banding traps at the Coffey Grounds are as active as always. Lula is in her twenty-fifth year as a docent with the Memphis Brooks Art Museum where she has been the recipient of the "Docent of the Year" award. Both Ben and Lula continue a steady pace of lecturing and attendance at meetings.

Ben and Lula Coffey have contributed greatly to the work of the Society and have been steadfast in their support at all levels. We have been entertained by their exploits, educated by their findings, inspired by their example and enriched by their presence. We are intensely proud of the growing recognition of their niche in the field of ornithology. The Society salutes Ben on his well deserved election as a Fellow in the American Ornithologists' Union.

Accepted 27 November 1992.

The Migrant, 63 (2): 33-38, 1992.

ARTICLES AND TAPES BY BEN B. COFFEY, JR. AND BEN AND LULA COFFEY

compiled by
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The following articles, notes, and tape recordings were published between the years 1931 and 1992 by Ben B. Coffey, Jr. and Lula Coffey.

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1939c The season: Memphis area. 10:31.
1939d et. al., An electric bird game. 10:49.
1939e Summer birds of Tishomingo State Park, Mississippi. 10:50-56.
1939f As others see us. 10:72.
1939g The season: Memphis area. 10:74.
1938a The season: Memphis. 9:12-13.
1938b Prothonotary Warblers make news. 9:21-22.
1938c The season: Memphis. 9:28.
1938d Summer resident lists: Shelby County. 9:46.
1938e Blackbird banding in the Mid-South-1. 9:59-63.
1938f The season: Memphis area. 9:63-64.
1938g Swift banding in the South. 9:82-84.
1938h The season: Memphis area. 9:95-96.
1937a The season: Memphis. 8:14-15.
1937b LeConte's Sparrow in Memphis area. 8:15.
1937c Golden Eagle in Mississippi. 8:35.
1937d The season: Memphis. 8:57-58.
1937e Swift banding at Memphis — sixth season. 8:70-72.
1937f The season: Memphis. 8:73-74.
1937g Nocturnal migration at Memphis. 8:74-75.
1936a The season: Memphis. 7:19.
1936b Saw-whet Owl at Memphis. 7:19-20.
1936c The season: Memphis. 7:37-38.
1936d Brewer's Blackbird at Lakeview, Mississippi. 7:38.
1936e August waterbird visitors at Mud Lake. 7:61-68.
1936f The season: Memphis. 7:68-69.
1936g Henslow's Sparrow near Memphis. 7:69.
1936h Chimney Swift migration at Memphis. 7:79-82., 96-98.
1936i The season: Memphis. 7:98-99.
1936j Willow Thrush at Memphis. 7:99.
1935a The season: Memphis. 6:12.
1935b The season: Memphis. 6:33-34.

1935c A Piping Plover at Memphis. 6:35.
1935d Bell's Vireo at Memphis. 6:67-68.
1935e The season: Memphis. 6:91.
1934a The season: Memphis. 5:10-11.
1934b The season: Memphis. 5:26-27.
1934c (A.F. Ganier and Ben B. Coffey) A Hudsonian Curlew at Memphis. 5:40-41.
1934d Wayside notes from West Tennessee. 5:59-60.
1934e The season: Memphis. 5:62.
1933a The Mockingbird, state bird-elect. 4:1.
1933b The season: Memphis. 4:8.
1933c The season: Memphis. 4:19-20.
1933d The season: Memphis. 4:36.
1933e Notes on the Painted Bunting at Memphis. 4:41-42.
1933f The season: Memphis. 4:48-49.
1932a Notes from Memphis. 3:9-10.
1932b The season: Memphis. 3:28.
1932c The season: Memphis. 3:36-37.
1932d A state bird for Tennessee. 3:43-44.
1932e The season: Memphis. 3:48.
1931a Summer warblers of Shelby County. 2(2):1-2.
1931b Along the Mississippi in August and September. 2:21-23.
1931c Field notes from Memphis. 2:24.

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Accepted 2 December 1992.

The Migrant, 63 (2): 39-42, 1992.

MINUTES OF SPRING 1992 TOS BOARD OF DIRECTORS MEETING

The Spring 1992 TOS Board of Directors Meeting was held 2 May 1992 at the Comfort Inn in Oak Ridge. The meeting was called to order by State TOS President Bob Ford. A quorum was present. Minutes of the Fall 1991 meeting were distributed. One correction by Treasurer George Payne, Jr. — There was a 1.32 percent decrease from previous *year* instead of since the previous date.

REPORT OF VICE PRESIDENTS:

East Tenn. — Wallace Coffey thanked the Knoxville Chapter for hosting.

Middle Tenn. — Ann Tarbell recognized Dr. Galen Lenhert as new season compiler, effective 1 March 1992, for *The Migrant* for Middle Tennessee; he is a professor at Vanderbilt University.

West Tenn. — Martha Ramey not present but announcement was made that West Tennessee is to host the Spring 1993 meeting at a time and place to be announced.

DIRECTORS AT LARGE: David Hassler advised he and wife Robbie Hassler will be teaching a class and field course in June 1992 about birding and bird identification at York Institute of Jamestown. Others are encouraged to teach such courses.

TREASURER'S REPORT: George Payne reported that: As of 28 April 1992, TOS assets were $89,805.91. Expenses of $20,250 are anticipated, leaving a reserve of $69,555.91. Since 30 September 1991, there has been a total income of $17,546.13, with expenses totaling $8,866.67. Membership - There are currently 757 reported paid-up members, which is about 15 percent less than the total for last year. However, after all chapter membership rosters are received, total membership is anticipated to exceed that of last year.

SECRETARY'S REPORT: None.

EDITOR'S REPORT: David Pitts not able to be present, but he has reported that the December, 1990 *Migrant* is ready to mail. All 1991 issues to be submitted to printer by August, 1992.

REPORT OF SEARCH OR NOMINATING COMMITTEE:

Curator — Robbie Hassler nominated Chuck Nicholson for voting on by members at the night Spring Business Meeting.

Editor — Robbie Hassler nominated Wallace Coffey as Editor of *The Migrant* for election at night business session. Coffey advised that, if elected, he would ask Rick Knight as Assistant Editor, which is the first such position since the late 1960's. In anticipation of this nomination, Coffey has an emergency consultant committee consisting of: Bob Ford, Paul Hamel, Martha Waldron, Rick Knight, Ken Dubke, and Bob Hatcher. Coffey reports he is to also appoint a five-person advisory committee, with three from Academic Community to be selected by President, and two regular members to be selected by Coffey.

President Elect — Robbie Hassler nominated Bob Ford for a second term. When first elected, Ford represented West Tennessee. Since moving to Nashville, he will represent Middle Tennessee's term at the office. Ford advised he would serve if elected. No other nominations.

FINANCE COMMITTEE: Barbara Finney reported the Finance Committee will be reviewing records and report tonight. Members of this Committee are Barbara

Finney of Knoxville (Chair), Jim Ferguson of Memphis, and Dick Newton of Nashville.

BREEDING BIRD ATLAS COMMITTEE: Chuck Nicholson reported that he hopes to complete editing of all the Atlas data in the next few weeks. The committee has been seeking to raise at least $25,000 to supplement publication costs of the proposed Atlas book; also need to raise money for artwork for the book. The Forest Service has made a recent donation of $2,000 for the Atlas. We presently have funds or commitments of about $26,000. Progress on the book is going slower than anticipated due to Nicholson's having to write most of the species accounts. It is hoped that the manuscript can be completed in the fall of 1992. Nicholson thanked Bob Hatcher for helping raise funds for the Atlas. This primarily included: $7,000 from the Lifeworks Foundation of Nashville (via a grant from TWRA), $4,000 from Monsanto Company, and a total of $3,303 in seed sales from Acme Farm Supply and Garr's Rental and Feed.

RECORDS COMMITTEE: Bob Ford announced Don Davidson is the new Middle Tennessee representative on the Bird Records Committee, replacing David Vogt who has moved to Chattanooga. Ford may propose an increase of committee membership to five to seven persons providing geographic representation and birding expertise. He is researching Bird Committee composition in other states. This is to be ready for Board action by the Fall, or possibly the Spring TOS meeting. Martha Waldron recommended publishing in "The Warbler" names of Committee members, birds submitted for Committee review, and which birds were accepted. Ford requested input to himself, chairman Rick Knight, or other members of the committee.

CONSERVATION COMMITTEE: Ken Dubke recommended support of TWRA's Nongame and Endangered Species Program.

PATCHES AND DECALS: Bob Ford advised he is looking into preparation of an updated TOS pamphlet to be made available through the Patches and Decal Committee. Carolyn Bullock advises about 100 75th Anniversary patches are available at $1.00 each. Nobody is chairing this committee; President Ford will revitalize the committee in relation to making new patches and decals as appropriate. Rick Knight advised Bill Bridgforth is interested in serving on this committee.

George Payne, Jr. advised that Jim Ferguson has a group photograph from the 75th anniversary meeting in Memphis. Jim has a list of persons requesting that picture; George can take additional orders at this meeting.

FALL MEETING: Don Davidson invited, on behalf of the Highland Rim Chapter, TOS to have the Fall, 1992 meeting near Woods Reservoir. The tentative time is 30 October - 1 November, subject to further review of available facilities, etc.

TOS AWARDS COMMITTEE: Bob Ford advised that chapter presidents have been invited to submit nominations. Three award winners are to be announced at the annual meeting tonight.

BIRD MONITORING COMMITTEE: Chairman Paul Hamel advised the Committee met in Lebanon for two days in January, 1992 to determine how TOS can continue their enthusiasm and skills for monitoring bird populations. He presented the following menu for bird monitoring techniques that individuals or chapters could use:

Training — will be required for providing standard techniques.

Responsive Birding — provide area-specific bird lists as an aid to landowner management decisions and other uses.

Area Counts — allows gentle monitoring of change.

Atlas Efforts — help compare baseline data for later comparison.

Roadside counts — breeding bird survey routes need to be revitalized and expanded for June roadside counts.

Habitat Specific Point Counts — relate species to named habitats, enabled detailed projection of changes — requires vegetative information — provides documentation for optimum management of the area.

Spot Mapping — shows species in specific habitat types (including vegetative measurements) by physiographic region for all breeding birds in the area; winter birds can also be sampled.

Nest Search Plots — permits estimate of nesting success on small plots, with monitoring of changes over time.

Bird Banding — band young to determine "if" and "how many" come back as measure of reproduction success and changes over time.

It is recommended that TOS chapters adopt specific public lands to help meet these objectives. Landowners are waiting with open arms. Should record date, time of effort, and observer. Data should be compiled and shared with landowners. Publish results in *The Migrant* or as appropriate. Integrate new persons in monitoring. Commit to repeat the process at another time.

Bob Ford advised we want to plan for implementing this menu in Tennessee.

FORAY: A foray is proposed to be centered at the Brownsville Comfort Inn - Memorial Day Weekend, 1992. We are to demonstrate a breeding bird census plot in the Hatchie National Wildlife Refuge; long-term monitoring is proposed in this natural area where the habitat is not to ever be cut. Point count procedures will also be demonstrated in specific habitats of the Hatchie River bottoms and also in the Forked Deer River systems, which are totally different habitats.

TOS HISTORICAL MARKER: Margaret Mann reported 30 people were present on 25 April 1992 when the TOS historical marker was dedicated in Nashville at 5th and Union to commemorate the founding of TOS in Nashville in 1915. A contract with Third National Bank was signed for placement of this sign and will be placed with the TOS Curator. Unfortunately, Ben and Lula Coffey, who financed the marker, could not be present due to illness.

A Resolution by the Nashville Chapter was presented by Joe McLaughlin thanking: Jim Bailey for suggesting that the marker be placed, Ben and Lula Coffey for financing the marker, and to Margaret Mann for completing the numerous tasks involved with the placement of the marker. The Board passed the Resolution.

TOS HISTORIAN: Bob Ford advised that, after the new Curator is in place and functioning, he hopes to establish the process for a TOS historian position. This is to be discussed more at the Fall meeting or possibly at Spring 1993 meeting.

HOUSING OF BACK ISSUES OF *THE MIGRANT*: Bob Ford reported that half to three-quarters of the back issues of *The Migrant* have been moved from UT Knoxville to Ford's office at TCL headquarters. The remainder are to be moved there in the near future. Assistance was requested from persons traveling between Knoxville and Nashville. Future back issues can be obtained through the Curator.

Bob Ford advised consideration has been given to donate complete sets of *The Migrant* to some libraries and institutions, provided they commit to a five to seven-year subscription to *The Migrant* in the near future. The Board would need to consider guidelines concerning: limitations on available sets, distribution where the need is greatest, and alternative accessibility less, etc. Chuck Nicholson advised there are between 30 and 40 complete sets (with earlier ones copied).

REVITALIZATION OF SELF-STUDY COMMITTEE: Bob Ford advised that, at the fall conference, we will continue to look at how TOS can improve membership, make better its relationship with public landowners (as per Hamel's above suggestion), etc. We may make this a major portion of the afternoon fall session, with a good speaker on the subject for a Saturday night program.

SUPPORT OF "BIRD SYMPHONY": The Blair School of Music of Nashville has invited TOS to help sponsor a bird symphony at $75 to $150 cost. Bob Hatcher advised that he had discussed the slide show content with the proposed sponsor and learned of inaccuracies, depicting current hunting as a cause of bird endangerment and extinction. The Board decided not to provide funding without viewing it first for its accuracy of content.

NEW BOOK, *BIRDS OF BLUE RIDGE MOUNTAINS* by Dr. Marcus Simpson: George Payne, Jr. advised he has been contacted by the University of North Carolina Press, requesting TOS sell them the one-time use of their mailing list for mailing publication notices. They pay between $60 and $80 per 1,000 names (about 900 on TOS mailing list). A motion was made and passed that the mailing list be sold as requested for this well-done book. TOS will provide one copy of pressure sensitive labels for this one-time use for $70 per 1,000.

Respectfully submitted,
BOB HATCHER, Secretary TOS

The Migrant, 63 (2): 43-44, 1992.

TOS SPRING BUSINESS MEETING

The Spring Meeting of TOS was held 2 May 1992 at the Knights of Columbus Hall of Oak Ridge, with the Knoxville Chapter hosting.

Knoxville President Bob Collier opened the meeting by introducing the head table. President Bob Ford asked for reports by officers. Wallace Coffey, East Tenn. Vice President, thanked the Knoxville Chapter for hosting the meeting. Ann Tarbell, Middle Tenn. Vice President, thanked the Knoxville Chapter and introduced Galen Lenhert, who became Middle Tennessee's bird compiler on 1 March 1992. Martha Ramey, West Tenn. Vice President, was not present, but her representative advised that the Spring 1993 meeting will be held in West Tennessee at a time and place to be determined.

Treasurer George Payne, Jr. presented a full report, which is summarized as follows: Current total assets are $89,805.91. We have additional pledges of approximately $19,000 for the Atlas Fund. We have anticipated expenses of $20,250, leaving a capital reserve of $69,555.91. Since the fall meeting, there has been income of $17,546.13 and expenses of $8,866.67. Membership is 757, compared to a final 1991 total of 897 members; preliminary reports indicate membership will likely exceed last year's total after all chapter roster reports are received.

Editor David Pitts could not be present. President Bob Ford reported the December 1990 issue of *The Migrant* is to be mailed within a month to six weeks. All 1991 issues are expected due to the printer by August 1992.

NOMINATIONS: Robbie Hassler, representing the Nominating Committee, submitted Chuck Nicholson as Curator. George Payne moved that Chuck be elected by acclamation. This was seconded and Nicholson was elected. Nicholson advised that back issues are to be taken to Rhodes College at Memphis, courtesy of Mac McWhirter, who is to serve as Associate Curator.

Wallace Coffey was submitted as Editor of *The Migrant*. It was moved that he be elected by acclamation. This was seconded and passed. Coffey appointed Rick Knight as Assistant Editor of *The Migrant*, the third person to fill this position. Coffey announced a consultant task force committee involving six or seven to serve for one year. There will also be appointed a five-person Advisory Committee, which he hopes will be permanent.

President Bob Ford was submitted for TOS President to represent Middle Tennessee, where he now lives. A motion was made and seconded that he be elected by acclamation; it passed.

FINANCE COMMITTEE: Barbara Finney reported all records in order.

NEOTROPICAL BIRD COMMITTEE: Dr. Paul Hamel summarized his prior Board report recommending techniques for maintaining monitoring of Tennessee's bird population (see Board of Director minutes of 2 May 1992).

HISTORIC MARKER INSTALLATION: Margaret Mann reported that on 20 February 1992, a TOS historical marker was installed at 5th and Union in Nashville, commemorating the founding of TOS near there in 1915. A dedication ceremony was held there on 25 April 1992, with 30 people in attendance.

FALL SYMPOSIUM: President Bob Ford announced the Highland Rim Chapter has graciously offered to host the fall symposium. It is proposed to be in the Woods Reservoir area, with tentative dates of 30 October - 1 November 1992.

AWARDS COMMITTEE: President Bob Ford presented Distinguished Service Awards as follows:

Middle Tennessee — Ruth McMillan: Ruth McMillan has been a TOS member for more than 22 years. She has held several offices in the John Sellars Chapter, including: bird count and field trip chairman, the fall count compiler in 1983 and 1984, spring count chairman in 1984, president of chapter in 1985-90, state director from 1985-92, chairman of chapter public relations, responsible for planning the 1986 State meeting at Lebanon, conducted countless bird and nature study walks in the Lebanon area, and has probably been responsible for continuing operation by a couple of smaller Middle Tennessee chapters.

West Tennessee — Martha Waldron: Since returning to her native Memphis in 1968, Martha Waldron has become the mainstay of bird records for the Memphis chapter. She has held several chapter offices, including president, and has been active in all chapter activities as well as West Tennessee work. She serves on the Memphis Mayor's Advisory Council for the Memphis Earthplex (an important shorebird stopover point that she helped get declared a sanctuary). She is a bander for the Memphis Zoo raptor rehabilitation project and rehabilitates raptors in her backyard. She is the current curator for West Tennessee. She has served on committees that have reviewed management plans for various wildlife refuges. She has banded Interior Least Terns and has done much to help protect their nesting areas on Mississippi River islands. She has been an enthusiastic participant in the Memphis Chapter's cooperative TWRA Reelfoot eagle hacking project from 1981-88. She was State Treasurer from 1979-81. She has served almost constantly on the State Certification Committee, and has been West Tennessee's seasonal compiler for *The Migrant* for several years. She has led the compilation of over 50 years of bird records of the Memphis Chapter, publishing the "Seasonal Occurrences of Shelby County, Tennessee Birds."

East Tennessee — Chuck Nicholson: Chuck Nicholson is former president and vice president of the Knoxville Chapter. He has been the bird compiler for the Eastern Ridge and Valley Region seasonal report through the mid-1970's. He has been director of county forays in the late 1970's and early 1980's concerning breeding birds and migrants. He began publication of the *Tennessee Warbler* newsletter. He was the first chairman of the Tennessee Bird Certification Committee. He was chair of the TOS-Wilson Ornithological Society Meeting held in Tennessee in 1986. He has served as a State Director for several years. He was editor of *The Migrant* from 1981-88. He has been the author of several articles in *The Migrant*. During the six years of Atlas field work, he has worked in more blocks than anyone else, while serving as Atlas chairman since 1987. He is currently editing the Atlas publication and has just accepted the TOS Curator position.

Roll call of Chapters was held, with members standing from each.

Knoxville President Bob Collier introduced guests.

Louise McLeroy's song, "TOS," was led by Mrs. George (Cleo) Mayfield, to the tune of "Yankee Doodle".

Holly Overton introduced guest speaker Herbert Axell from England. He is an expert ornithologist and an authority at forming suitable bird habitats all over the world. The Queen of England and Winston Churchill have each honored him. He spoke on "Birding Around The World".

Respectfully submitted,

BOB HATCHER, Secretary TOS

The Migrant, 63 (2): 45-50, 1992.

1992 SPRING FIELD DAYS

Susan N. McWhirter

Eleven counts were conducted across the state on the 1992 Spring Field Days for a statewide total of 213 species. Notable species include American Bittern, Peregrine Falcon, Northern Saw-whet Owl and Connecticut Warbler. The counts vary from one day to two days in length so comparison of individual counts can be difficult. Also, not all counts are done on a regular basis from year to year. As increasing emphasis is placed on the threat of habitat loss to Neotropical migrants, the records of our observations become especially important. It may be necessary for our organization to reevaluate our spring counts and restructure them so that the information they provide can be more consistent and detailed.

INFORMATION ON THE COUNTS

MEMPHIS — 26 April; 0730-1700; clear to partly cloudy; wind N 22-28 mph; temp. 46-58F; 39 observers. Area covered included Shelby Forest State Park, EARTH Complex, Penal Farm, President's Island, Robco Lake, and backyards. Martha Waldron (compiler — 1626 Yorkshire Dr., Memphis 38119). Record number of Lesser Yellowlegs.

COLUMBIA — 24-25 April; cloudy with some rain; temp. 50-86F; 46 party hours;12 observers in 7 parties. Area covered was central Maury Co. including Columbia, Mt. Pleasant, Spring Hill, Arrow Lake, Airport Lakes, and Monsanto Ponds, with additional adjacent areas of eastern Lewis Co., including Swan Creek and tributaries, and southeastern Hickman Co. including Primm Springs, Lick Creek, and Duck River Valley. William N. Jernigan, Allyn Lay, Cleo Mayfield, George Mayfield (compiler — 999 Sunnyside Dr., Columbia 38401), Anne Lochridge, Bedford Lochridge, Joe High, Sarah High, Bill Jones, Kay Jones, Nancy Thomas.

NASHVILLE — 9-10 May, 0430-2100 and 0430-1700; clear to cloudy; calm to moderate wind; temp. 44-80F; 110.5 party hours, 40 observers in 11 parties. David Alexander, Jan Alexander, Jane Botteri, Bob Brayden, Hazel Cassel, Jean Cobb, Richard Conners, Linda Costello, Bob Curtis, Jerry Drewry, Virginia Flynn, Ed Gleaves, Miles Gleaves, Mark Hackney, Bob Hatcher, Barbara Harris, Joni Langvoort, Galen Lenhart (compiler — 3109 Overlook Dr., Nashville 37212), Scot Lovell, Portia Macmillan, Margaret Mann, Jane Maynard, Joe McLaughlan, Dick Newton, Grace Newton, Elizabeth O'Conner, Marge Patrick, Oscar Patrick, Mangnus Persmark, Virginia Price, Elizabeth Sampson, Jan Shaw, Chris Sloan, Joe Stone, Ann Tarbell, Sabin Thompson, Ome Vaughn, Ken Walkup, Mary Zimmerman.

MURFREESBORO — 2-3 May; fair to partly cloudy; wind 10-15 mph; temp. 70-80F; 33.5 party hours; 300 party miles; 14 observers. Bertha Chrietzberg, Jim Chrietzberg, Bill Erwin, Lou Erwin, Jeff Helbrig, Anna Hettish, Bob Hettish, Richard Hunter, Wilma Hunter (compiler — Rt. 6, Box 58, Wilson Rd., Murfreesboro 37130), David McCarroll, Gere Odom, Ruth Odom, Ferrell Wilson, Terry Witt.

WILSON COUNTY — 25-26 April; partly cloudy to overcast; calm to windy; temp. 48-60F; 57.5 party hours; 80 miles by car, 5 miles on foot; 10 observers in 6 parties. Earline Berry, Vernon Berry, Melville McMillan, Ruth McMillan, Kay Norris

(compiler — 1609 Ponderosa Trail, Lebanon 37087), Larry Norris, Ramona See, Grace Speck, Melissa Turrentine, Roy Turrentine

MANCHESTER — 24-25 April; Saturday - cloudy with scattered showers, wind NW 17 mph, temp. 80F; Sunday - clear, wind N 15 mph, temp. 50-60F; 58 party hours (37 by car, 21 on foot) plus 4 owling and 8 at feeders); 458 party miles (429 by car, 27 on foot) plus 49 owling; 21 observers in 10 parties. Record number of species for this count. Carrie Aston, Scott Bates, John Bruner, Lois Bruner, Don Davidson (compiler — 1703 2nd Ave., Manchester 37355), Peggy Gilliam, Marquerite Hernandez, Jerry Ingles, Ruth Luckadoo, Tricia Matte, Agnes Marcrom, H.D. Marcrom, Nickie Medley, Phil Medley, Chloe Peebles, Howell Peebles, Jim Peters, Erma Rogers, Jean Sullivan, Deryl Walker, Bobbie Woods, Harry Yeatman, Jean Yeatman, Grady York, Willa York.

PUTNAM COUNTY — 9 May; fog and clouds in AM, clear in PM; wind SW 0-10 mph; temp. 42-68F; 54 party hours, including 2 owling; 404 party miles, including 40 owling; 12 observers in 6 parties. Carol Brown, Daniel L. Combs, W. Howard Groce, David Hume, Britt Jones, John Lane, Michael A. Sanders, Joanne Schaefer, Richard W. Simmers, Jr., Barbara H. Stedman, Stephen J. Stedman (compiler — 2675 Lakeland Dr., Cookeville 38501), Winston A. Walden. Second county record of Swainson's Warbler; also, highest daily totals ever for 42 species.

CHATTANOOGA — 9 May; 186.5 party hours plus 6.75 owling; 1076.5 miles by car, 45 miles on foot, plus 65.7 owling; 43 observers in 16 parties plus 9 at feeders. John Henderson (compiler — 7323 Fairington Cl., Hixson 37343).

KNOXVILLE — 26 April; heavily overcast with rain; temp. 38-52F; 80.5 party hours, including 2 owling and 2 at feeders; 323 party miles; 19 observers in 12 parties. Mike Baltz, Jane Beintema, Betty Reid Campbell, Jim Campbell, Howard Chitwood, Marcia Davis, Mary French, Paul Hartigan, Erin Hinton, Audrey Hoff (compiler — 4523 McCloud Rd., Knoxville 37938), Ron Hoff, Tony Koella, Barbara Martin, Bettie Mason, Charles P. Nicholson, Holly Overton, Paul Pardue, Truett Patterson, Boyd Sharp.

GREENEVILLE — 9 May; 0600-1950; cloudy with drizzle in AM; wind NE 5 mph; temp. 40-65F; 77.5 party hours (31.5 by car, 12 on foot, 34 at feeders); 412 party miles (405 by car, 7 on foot); 23 observers in 13 parties, plus 11 at feeders. Denise Ashworth, Mark Britton, Orland Britton, Phine Britton, Justino Carlos, Violet Carlos, Cynthia Cragin, Herb Cragin, Susan Ford, King Gaut, Margaret Gaut, Juanita Heckert, Lenard Heckert, Jim Holt (compiler — 311 Colonial Ct., Greeneville 37743), Daniel J. Nieves, Richard Nevius, Willie Ruth Nevius, Linda Northrop, Helen Reed, Helen Spees, Royal Spees, Reta Taylor, Virginia Williams.

ELIZABETHTON - 26 April; 0445-2000; overcast with fog, light rain, sleet and snow in mountains; 0.5" snow on Roan and Unaka Mtns.; wind W-NW 0-20 mph, mostly in mountains; temp. 27-54F; 97 party hours plus 7.5 nocturnal; 24 observers in 10 parties. The Northern Saw-whet Owl was seen on Unaka Mtn.; record number of species despite weather. Fred Alsop, Wallace Coffey, Brian Cross, Harold Dillenbeck, Martha Dillenbeck, Rusty Dunn, Rodney Hardin, Dick Hegler, Mildred Hegler, Danny Huffine, Rick Knight (compiler — 804 N. Hills Dr., Johnson City 37604), Pam Lewis, Richard Lewis, Kelli Mayfield, Rad Mayfield, Tom McNeil, Paul Miller, Randy Presnell, John Shumate, Cathi Sullins, Jim Wayland, Shirley Wayland, Jennifer Wilson.

THE 1992 SPRING FIELD DAYS

Species	Memp	Colu	Nash	Murf	Wils	Manch	Putnam	Chat	Knox	Greene	Eliz
Common Loon	*	*	3	*	*	*	*	1	1	*	*
Pied-billed Grebe	*	3	2	*	*	*	1	1	1	*	2
Double-crested Cormorant	*	25	*	*	*	32	*	*	5	*	1
American Bittern	*	1	1	*	*	*	*	*	1	*	*
Great Blue Heron	9	9	20	5	1	43	11	142	78	10	2
Great Egret	*	*	1	*	*	*	*	*	*	*	*
Snowy Egret	*	*	*	*	*	1	*	*	*	*	*
Cattle Egret	*	17	1	*	*	*	*	20	*	*	*
Green-backed Heron	2	5	17	7	3	7	8	19	9	3	10
Black-crowned Night-Heron	*	2	73	*	*	*	*	2	8	1	*
Yellow-crowned Night-Heron	*	*	1	*	*	*	*	9	*	*	2
Snow Goose	*	*	*	*	*	*	*	*	*	1	*
Canada Goose	1	91	187	16	9	90	40	142	129	58	95
Wood Duck	14	20	49	9	*	17	31	30	48	70	55
Mallard	12	6	171	4	1	18	*	80	33	20	56
Blue-winged Teal	*	11	5	*	*	*	*	9	2	1	*
Northern Shoveler	*	*	1	*	*	*	*	*	*	*	1
Gadwall	*	5	*	*	*	*	*	*	*	*	2
Ring-necked Duck	*	1	*	*	*	*	*	*	*	*	1
Lesser Scaup	*	*	1	*	*	*	*	*	*	*	*
Bufflehead	*	*	*	*	*	*	*	*	*	*	16
Hooded Merganser	*	*	1	*	*	*	*	*	*	*	3
Red-breasted Merganser	*	*	*	*	*	*	*	3	*	*	10
Black Vulture	1	22	54	46	24	21	2	25	6	10	3
Turkey Vulture	*	66	76	30	18	28	30	78	21	17	85
Osprey	1	4	*	*	*	*	1	4	5	2	5
Bald Eagle	*	*	1	*	*	*	*	1	*	*	*
Mississippi Kite	2	*	*	*	*	*	*	*	*	*	*
Northern Harrier	1	*	*	*	*	*	*	2	*	1	*
Sharp-shinned Hawk	*	1	4	*	*	2	1	5	*	1	1
Cooper's Hawk	1	2	2	*	*	*	1	1	*	*	1
Red-shouldered Hawk	1	2	9	*	*	4	7	25	2	*	*
Broad-winged Hawk	4	3	7	*	*	5	4	18	*	*	6
Red-tailed Hawk	3	17	32	14	9	13	15	26	8	4	9
American Kestrel	4	20	20	18	3	8	18	1	7	18	15
Peregrine Falcon	*	*	*	*	*	*	*	1	*	*	*
Ruffed Grouse	*	*	*	*	*	*	*	*	*	2	22
Wild Turkey	5	*	2	*	*	3	*	*	*	1	5
Northern Bobwhite	2	32	66	16	7	7	16	38	7	10	8
Virginia Rail	*	1	2	*	*	*	*	*	*	*	*
Sora	*	10	5	*	*	*	*	2	*	*	1
American Coot	1	11	3	*	*	1	*	4	1	*	3
Blk-bellied Plover	*	1	1	*	*	*	*	*	*	*	*
L. Golden-Plover	6	*	*	*	*	*	*	*	*	*	*
Semipalmated Plover	15	1	2	*	*	*	*	3	*	1	*
Killdeer	9	50	37	28	13	30	34	95	105	60	36
Greater Yellowlegs	8	4	3	*	*	5	1	1	*	*	6
Lesser Yellowlegs	661	4	36	*	*	1	*	2	2	*	2
Solitary Sandpiper	135	20	15	*	7	7	5	27	4	21	29
Spotted Sandpiper	2	8	8	2	3	6	9	15	22	5	23
Sanderling	*	*	1	*	*	*	*	*	*	*	*
Semipalmated Sandpiper	5	*	7	*	*	12	4	*	*	7	*
Western Sandpiper	8	*	*	*	*	1	*	*	*	*	*
Least Sandpiper	1655	25	86	2	*	*	1	*	*	15	1
Pectoral Sandpiper	580	4	*	*	*	4	1	*	1	*	*
Stilt Sandpiper	*	*	1	*	*	*	*	*	*	*	*
Short-billed Dowitcher	1	*	*	*	*	*	*	*	*	*	*
Long-billed Dowitcher	2	*	*	*	*	*	*	*	*	*	*
Common Snipe	2	5	*	*	1	1	*	3	11	1	4
American Woodcock	*	2	3	*	*	*	1	*	*	*	1

THE 1992 SPRING FIELD DAYS

Species	Memp	Colu	Nash	Murf	Wils	Manch	Putnam	Chat	Knox	Greene	Eliz
Wilson's Phalarope	1	*	*	*	*	*	*	*	*	*	*
Bonaparte's Gull	*	*	*	*	*	*	*	30	*	*	*
Ring-billed Gull	*	*	96	1	*	5	*	69	8	1	13
Herring Gull	*	*	2	*	*	*	*	*	*	*	*
Common Tern	*	4	*	*	*	*	*	*	*	*	*
Forster's Tern	*	5	1	*	*	*	*	23	*	*	*
Rock Dove	16	63	55	100	9	39	81	52	229	100	176
Mourning Dove	15	94	190	278	39	126	132	502	285	434	289
Black-billed Cuckoo	*	*	2	*	*	*	*	*	*	*	*
Yellow-billed Cuckoo	4	2	7	2	*	*	2	5	2	1	*
Common Barn Owl	*	*	*	*	*	1	*	*	*	8	2
Eastern Screech-Owl	*	9	2	10	*	3	5	3	5	*	3
Great Horned Owl	*	6	4	6	2	1	1	7	2	*	4
Barred Owl	4	8	10	*	*	3	1	7	2	*	7
N. Saw-whet Owl	*	*	*	*	*	*	*	*	*	*	1
Common Nighthawk	*	2	2	7	*	1	5	5	*	*	40
Chuck-will's-widow	*	7	9	*	2	1	1	4	13	*	5
Whip-poor-will	*	8	9	*	*	3	2	5	2	1	8
Chimney Swift	91	61	216	80	59	79	61	373	350	73	261
Ruby-throated Hummingbird	23	14	12	19	6	13	13	23	5	14	8
Belted Kingfisher	1	9	19	6	2	2	8	28	15	11	15
Red-headed Woodpecker	22	7	9	1	2	5	5	14	*	*	2
Red-bellied Woodpecker	59	45	67	9	9	34	30	112	73	26	31
Yellow-bellied Sapsucker	*	*	*	*	*	*	*	1	*	1	*
Downy Woodpecker	13	42	63	6	11	13	12	67	16	20	38
Hairy Woodpecker	5	7	8	1	2	4	4	5	2	3	12
Northern Flicker	3	10	23	19	3	22	19	72	26	19	47
Pileated Woodpecker	7	12	22	1	1	6	19	44	18	18	37
Olive-sided Flycatcher	*	*	*	1	*	*	*	1	*	*	*
Eastern Wood-Pewee	5	7	63	6	1	3	18	28	3	1	1
Acadian Flycatcher	9	5	31	2	*	1	26	11	*	*	3
Willow Flycatcher	*	*	4	*	*	*	*	*	*	1	2
Least Flycatcher	*	*	4	*	*	*	*	*	*	*	*
Empidonax sp.	*	*	*	*	*	*	*	4	1	*	*
Eastern Phoebe	2	*	43	*	11	10	46	73	20	9	54
Great Crested Flycatcher	8	*	38	8	8	14	17	45	10	12	6
Eastern Kingbird	17	*	90	66	25	32	45	74	31	15	11
Horned Lark	6	*	*	*	*	1	2	*	*	*	1
Purple Martin	48	24	51	161	9	57	12	104	17	30	96
Tree Swallow	550	18	7	4	*	15	16	32	53	2	32
N. Rough-winged Swallow	337	73	114	8	15	49	49	156	72	40	355
Bank Swallow	11	2	1	2	*	10	67	15	19	4	5
Cliff Swallow	4	6	1056	*	*	30	36	165	13	2	26
Barn Swallow	220	79	151	254	109	56	139	514	565	341	513
Blue Jay	16	89	145	102	76	124	99	303	126	141	201
American Crow	23	101	121	256	70	94	112	391	267	177	388
Fish Crow	17	*	*	*	*	*	*	*	*	*	*
Common Raven	*	*	*	*	*	*	*	*	*	*	13
Carolina Chickadee	34	95	152	26	50	18	56	237	139	49	161
Tufted Titmouse	86	86	117	29	24	60	61	254	110	27	93
Red-breasted Nuthatch		*	*	*	*	*	*	*	*	*	8
White-breasted Nuthatch	7	18	30	*	2	15	16	68	11	5	13
Brown-headed Nuthatch	*	*	*	*	*	*	*	28	*	*	*
Brown Creeper	*	*	*	*	*	*	*	*	*	*	1
Carolina Wren	105	45	137	17	36	36	85	224	153	31	166
Bewick's Wren	*	*	*	2	1	*	*	*	*	*	*
House Wren	*	3	11	7	1	*	2	4	12	11	16
Winter Wren	*	*	*	*	*	*	*	*	*	*	5
Sedge Wren	*	*	2	*	*	*	*	*	1	*	*
Marsh Wren	*	*	3	2	*	*	*	1	*	*	*

THE 1992 SPRING FIELD DAYS

Species	Memp	Colu	Nash	Murf	Wils	Manch	Putnam	Chat	Knox	Greene	Eliz
Golden-crowned Kinglet	*	*	*	*	*	*	*	*	*	*	9
Ruby-crowned Kinglet	3	8	11	1	*	2	2	11	46	1	27
Blue-gray Gnatcatcher	114	81	133	10	45	44	66	98	60	3	142
Eastern Bluebird	20	118	127	68	69	64	141	360	75	157	103
Veery	*	7	13	*	*	1	*	5	2	*	13
Gray-cheeked Thrush	15	*	5	*	*	*	2	1	*	*	1
Swainson's Thrush	57	2	108	5	*	1	20	16	7	*	9
Hermit Thrush	*	*	*	*	*	*	*	3	*	*	7
Wood Thrush	31	23	46	2	1	6	50	92	46	14	37
American Robin	45	500	441	340	111	281	362	662	578	373	1033
Gray Catbird	2	22	43	16	3	8	40	63	8	7	19
Northern Mockingbird	15	88	145	86	65	55	89	312	159	104	89
Brown Thrasher	5	57	80	32	20	39	84	127	31	21	27
American Pipit	*	*	*	*	*	15	*	*	8	*	95
Cedar Waxwing	39	35	159	84	19	45	8	415	742	18	228
Loggerhead Shrike	3	11	16	16	1	5	9	3	3	3	2
European Starling	122	400	757	600	183	212	419	965	904	674	955
White-eyed Vireo	74	99	49	7	9	11	55	38	17	1	11
Solitary Vireo	1	*	4	1	*	1	2	1	5	*	56
Yellow-throated Vireo	18	9	13	1	*	1	22	16	5	*	4
Warbling Vireo	5	8	8	*	*	*	2	1	*	*	*
Philadelphia Vireo	*	1	14	2	*	1	*	*	*	*	*
Red-eyed Vireo	33	44	73	13	5	25	177	196	139	6	56
Blue-winged Warbler	1	15	9	*	*	8	12	2	3	*	2
Golden-winged Warbler	*	*	4	*	*	*	*	3	*	*	*
Tennessee Warbler	124	11	82	10	*	9	43	62	9	*	2
Orange-crowned Warbler	*	*	*	*	*	1	*	2	*	*	*
Nashville Warbler	*	9	11	2	*	2	4	*	6	*	*
Northern Parula	85	18	23	*	*	4	13	5	1	*	15
Yellow Warbler	7	46	126	19	1	6	57	32	12	5	15
Chestnut-sided Warbler	8	*	29	2	*	1	13	42	5	*	7
Magnolia Warbler	1	2	42	7	*	1	8	24	1	*	*
Cape May Warbler	*	1	2	1	2	5	5	14	3	3	*
Black-throated Blue Warbler	*	*	*	*	*	*	*	3	*	*	15
Yellow-rumped Warbler	26	127	95	36	53	77	75	161	283	32	58
Black-throated Green Warbler	9	11	11	2	*	3	16	26	21	1	50
Blackburnian Warbler	*	2	4	*	*	4	4	23	5	1	2
Yellow-throated Warbler	2	13	13	1	1	5	17	14	1	*	7
Pine Warbler	3	11	14	6	*	20	25	7	13	*	7
Prairie Warbler	*	25	18	4	11	15	71	32	4	*	2
Palm Warbler	2	76	48	10	13	31	18	106	13	1	1
Bay-breasted Warbler	*	*	15	*	*	2	1	23	1	1	*
Blackpoll Warbler	6	14	9	10	4	4	11	23	2	*	*
Cerulean Warbler	6	4	7	*	*	*	5	3	6	*	*
Black-and-white Warbler	4	6	17	5	*	2	11	38	4	*	22
American Redstart	15	9	9	4	*	1	8	8	7	*	1
Prothonotary Warbler	25	19	22	*	*	3	1	1	1	4	1
Worm-eating Warbler	2	4	5	*	*	3	12	4	3	*	16
Swainson's Warbler	8	*	*	*	*	*	1	*	*	*	4
Ovenbird	10	*	16	1	*	4	36	31	4	1	81
Northern Waterthrush	6	1	7	1	1	2	5	11	1	*	*
Louisiana Waterthrush	7	8	18	1	*	5	11	10	*	*	8
Kentucky Warbler	24	33	26	1	1	11	26	15	6	*	5
Connecticut Warbler	*	*	*	*	*	2	*	*	*	*	*
Mourning Warbler	*	*	4	*	*	*	2	*	*	*	*
Common Yellowthroat	19	37	93	17	15	21	122	65	41	15	14
Hooded Warbler	4	5	17	*	*	5	26	17	10	1	38
Wilson's Warbler	*	*	9	*	*	*	4	1	*	*	*
Canada Warbler	*	*	9	*	1	*	3	12	*	*	6
Yellow-breasted Chat	1	43	25	2	5	18	32	34	12	8	1

THE 1992 SPRING FIELD DAYS

Species	Memp	Colu	Nash	Murf	Wils	Manch	Putnam	Chat	Knox	Greene	Eliz
Summer Tanager	59	29	35	7	9	8	19	32	*	3	1
Scarlet Tanager	6	27	28	4	2	13	13	79	24	3	30
Northern Cardinal	108	141	333	118	80	113	212	419	278	138	222
Rose-breasted Grosbeak	11	11	29	3	*	10	46	31	8	4	1
Blue Grosbeak	2	3	6	3	5	12	10	21	9	1	1
Indigo Bunting	169	48	195	41	21	26	229	195	77	30	23
Painted Bunting	1	*	*	*	*	*	*	*	*	*	*
Dickcissel	13	*	*	4	*	*	*	*	*	*	*
Rufous-sided Towhee	16	61	114	19	23	42	88	199	65	20	110
Chipping Sparrow	12	71	34	14	13	22	106	132	30	14	74
Field Sparrow	1	56	40	51	31	49	65	110	87	4	30
Savannah Sparrow	4	7	10	1	2	2	2	31	20	*	13
Grasshopper Sparrow	1	*	*	2	2	3	1	2	2	*	3
Fox Sparrow	*	*	*	*	*	*	*	*	*	1	1
Song Sparrow	1	3	16	1	1	21	87	160	170	*	248
Lincoln's Sparrow	1	*	6	*	*	*	2	1	*	*	*
Swamp Sparrow	*	20	21	1	*	3	4	4	2	2	6
White-throated Sparrow	93	82	69	27	8	29	26	80	187	43	111
White-crowned Sparrow	2	28	11	21	6	1	2	2	2	17	6
Dark-eyed Junco	*	*	*	2	*	*	*	*	*	40	114
Bobolink	222	*	22	*	*	1	53	34	27	11	6
Red-winged Blackbird	117	255	239	500	57	86	145	469	516	245	484
Eastern Meadowlark	17	210	105	104	86	160	142	144	284	295	276
Rusty Blackbird	*	*	*	*	*	*	*	*	*	*	1
Common Grackle	57	148	295	760	110	179	170	603	367	503	751
Brown-headed Cowbird	169	97	147	310	34	72	146	188	107	68	161
Orchard Oriole	8	35	46	2	8	5	26	22	4	5	3
Northern Oriole	14	*	9	3	5	*	7	11	*	1	1
Purple Finch	*	*	*	*	*	*	*	2	1	*	3
House Finch	3	91	32	13	5	21	14	176	61	113	98
Pine Siskin	2	*	*	*	*	2	*	66	3	8	448
American Goldfinch	86	220	218	66	83	167	47	388	135	79	776
House Sparrow	11	79	44	210	11	79	118	218	97	49	127
Total Species	135	145	168	113	87	137	137	160	130	110	157

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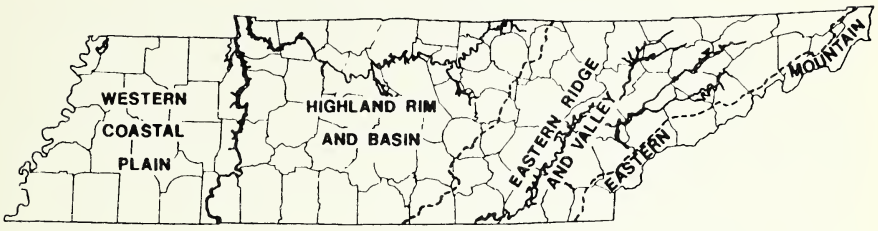
THE SEASON

Robert P. Ford, Editor



FALL MIGRATION: 1 AUGUST-30 NOVEMBER 1991

This season was distinguished by the early arrival and late departure of many migrants. Across the state, shorebirds, vireos, and warblers arrived earlier than normal, and departed on record or near record late dates. However, few waves of migrants were grounded and observers rarely recorded large lists of species or numbers of individuals. East Tennessee had one notable exception; details are discussed in the appropriate regional reports.

Weather patterns almost surely affected the ability of Tennessee birders to observe migration. The weather this season was mild, with occasional above normal temperatures. Precipitation was about normal, although October was extremely dry in the eastern part of the state. Without strong fronts or heavy winds, it seems likely much of the migration passed through Tennessee without stopping. These weather patterns may also account for the scarcity of records for early northern species, such as finches and siskins.

A Sprague's Pipit in the eastern mountains was the first for eastern Tennessee and was perhaps the thrill of the season. Among other rare birds encountered by those observers afield included a possible Rufous Hummingbird in the Ridge and Valley region, a Black-legged Kittiwake near the Tennessee River, and both Red Phalarope and Red-necked Phalarope near the Mississippi River.

As a housekeeping note, please notice that both the Fall and the Winter Season reports appear in this issue of *The Migrant*. This was necessary to get The Season report back on publishing schedule after the 75th Anniversary issue. Please note that all observers for both seasons are listed under a single heading at the end of the Winter report.

Abbreviations used in this report include: ad-adult, Co.-County, EOP-end of period, ers-earliest reported sighting this season, et al-and others, fide-reported by, im-immature, lrs - latest reported sighting, max-maximum count on one day, m.ob.-many observers, ph-photo, yg-young, *-details submitted.

WESTERN COASTAL PLAIN REGION — Mild temperatures and normal rainfall provided many good days for field work; 34 observers submitted records for this reporting period. There were few large waves of warblers, either by species or number of individuals, but some stragglers set late departure records. Shorebird observations provided the greatest number of field records. Island 13, the EARTH

Complex, and exposed islands along the Mississippi River provided many excellent birding and photographic opportunities.

Loon-Falcon: Common Loon: 26 Nov-EOP (1) PEF (MLG). Horned Grebe: 2 Nov (1) Bells Wastewater Lagoon, Crocket Co. (MAG, DoD); 7/8 Nov (1) HWR (JBC); 9/10 Nov (1) PEF (MLG, DPB, DoM, VBR, MGW). Double-crested Cormorant: 2 Sep (75) HDC (DJS); 10 Oct (1) PEF (MLG); 19 Oct (3,250+) REL, LKC (MAG), second highest count for area. Least Bittern: 13 Aug (1) Eaton-Brazil Marsh, GBC (MAG). Gadwall: 19 Sep (1) PEF (MLG), early SBC date. Greater Scaup: 28 Nov (1 female) PKD (DJS), fourth year for Savannah area. Lesser Scaup: present from summer season (1) PEF (MLG). Osprey: 7/21/22 Sep (1) DTC, 19 Sep (1) TEC (CHB); 21 Sep (1) TEC (WBF); 29 Sep (1) FPP (MTOS). Bald Eagle: 29 Sep (1 im) FPP (BBC, LCC, WGC, WBF, Betty Fowler). Sharp-shinned Hawk: 21 Sep (1) DTC (CHB); 21 Sep (1) CWR (JBC, HSH); 29 Sep (1) FPP (MTOS); 21 Oct (1) Jackson, MDC (HSH, AHH); 29 Oct (1) PEF (VBR); 9 Nov (1) TEC (MLG, MGW); 17 Nov (1) PEF (CHB). Cooper's Hawk: 29 Aug (1 im) MEM (VBR, BHW, MGW); 16 Sep (1) MEM (MLG); 13 Oct (1) Joyners's Campground, Fayette Co. (RPF); 20 Oct (1) MEM (BHW); 20 Oct (1) Mt. Orange, GBC (MAG, JCG); 23 Oct/15 Nov (1) MEM (RWP); 8 Nov (1) HWR (JBC); 17 Nov (1) PEF (CHB); 29 Nov (1) PRI (VBR, MGW, CHB); 29 Nov (1) PEF (MLG). Red-shouldered Hawk: 11 Sep (2) HWR (HBD, VBR, CHB); 7/21 Sep (1/3) DTC (CHB); 27 Oct (2) SFP (MTOS); 9 Nov (1) TEC (MLG, MGW); 10 Nov (1) PEF (DPB, DoM, VBR, MGW). Broad-winged Hawk: 7 Sep (1) DTC (CHB); 14 Sep (1) TOF (MTOS); 21 Sep (22) MEM (MGW). Rough-legged Hawk: 9 Nov (1) TEC (MLG, MGW); 12 Nov (1) Newbern, DYC (WGC); 24 Nov (1 im) PEF (MLG). Peregrine Falcon: 21 Sep (1) TEC (WBF).

Shorebirds: The EARTH Complex continued to attract birds and birders. Many observers (DPB, CHB, TAF, MLG, DoM, VBR, MGW, DLW) made a total of 33 visits this season; observers are as above unless otherwise noted. Black-bellied Plover: 3 Aug (1) TEC, early west Tennessee and SBC record; 10 Aug (1) TEC (DLW); 8/18 Oct (6/4) Island 13 (MAG, JCG). Lesser Golden Plover: 3 Aug (1) TEC, early SBC record (DLW); 25 Aug (3) Island 13 (MTOS); 3 Oct (15 max) TEC (DLW); 3 Nov (1) TEC (DLW); 3-7 Nov (1) PEF (VBR, MLG). Semipalmated Plover: 11/17 Aug (6/7) Island 13 (WGC); 18 Aug (8 max) TEC; 25 Aug/2 Sep (25) Island 13 (DLW); 10/16 Sep (33/13) Island 13 (MAG). Piping Plover: 2 Sep (1) Island 13 (DLW). Black-necked Stilt: 31 Aug (2 ad, 4 yg) TEC (MLG). AMERICAN AVOCET: 10 Sep (1) Island 13 (MAG). Lesser Yellowlegs: 5 Oct (200 max) TEC (DLW); 10 Nov (1) PEF (DPB, DoM, VBR, MGW); 17 Nov (1) PEF (RWP, WPP). Spotted Sandpiper: 27 Oct (1) north SBC (DDP). Upland Sandpiper: 11 Aug (1) TEC (MLG); 21 Sep (1) PEF (RWP). Western Sandpiper: 8/25/31 Aug (1/7) Island 13 (MLG, MTOS); 13 Aug (16) Island 21, DYC (MAG); 18 Aug-9 Nov (30 max) TEC; 2 Sep (10) Island 13 (DLW); 10/18 Sep (14/2) Island 13 (MAG, JCG); 6-19 Sep (1) PEF (MLG); 14 Nov (2) TEC (DoM, VBR, MGW). Least Sandpiper: 10 Oct (2,938) TEC (DoM, VBR, MGW), highest count reported for area. White-rumped Sandpiper: 18 Aug (7) TEC (MLG, TAF, DLW). Baird's Sandpiper: 2 Aug-19 Sep (2) TEC; 4 Sep-5 Nov (2-5) PEF (MLG); 2 Nov (1) TEC (GDJ); 9 Nov (1) TEC (MLG). Pectoral Sandpiper: 22 Aug (4,000 max) TEC; 29 Nov (1) TEC (MGW, CHB, VBR), late west Tennessee. Dunlin: 27 Oct (65 max) TEC (DLW); 30 Oct (20) PEF (VBR); 17 Nov (52 max) PEF (MLG); 27 Nov (2) PEF (CHB, SSL, VBR, TAI). Ruddy Turnstone: 2 Sep (3) Island 13 (DLW); 10 Sep (1) Island 13 (MAG). RED

KNOT: 25 Aug/2 Sep/10 Sep (1) Island 13 (RWP/DLW/MAG). Sanderling: 2 Sep (5) Island 13 (DLW); 13 Aug/16 Sep (2/5) Island 13 (MAG); 1 Sep (4) Tiptonville Ferry, LKC (GDJ, JRW). Stilt Sandpiper: 19 Sep (35 max) TEC; 2 Sep (25) Island 13 (DLW); 10 Sep (26) Island 13 (MAG); 3 Nov (5) TEC (DLW). Buff-breasted Sandpiper: 2 Aug-19 Sep (10 max) TEC; 1 Sep (1) Island 13 (GDJ, DGJ); 2 Sep (3) Island 13 (DLW). Long-billed Dowitcher: 25 Aug (6) Island 13 (MTOS); 5 Oct (12) TEC (DLW); 6/13 Oct (3/2) PEF (MLG). Short-billed Dowitcher: 25 Aug (1) Island 13 (MTOS); 3 Nov (1) TEC (MLG). Wilson's Phalarope: 10-24 Aug (1-2) TEC; 2 Sep (2) Island 13 (DLW). RED-NECKED PHALAROPE: 1/2 Sep (1/3) Island 13 (GDJ, DGJ, JRW/DLW). RED PHALAROPE: 16 Sep (1) Island 13 (JRW*, MAG), second west Tennessee record, ph.

Gull-Crow: Laughing Gull: 2 Nov (1 ad, 3 first year) PKD (SJS), second local record. Franklin's Gull: 13-17 Nov (2 ad) PKD (DJS, JRW, m.ob.). Bonaparte's Gull: 2 Nov (1) Trenton Wastewater Lagoon, Crocket Co. (MAG); 6 Nov (2) PEF (VBR, MLG); 21 Nov (1) PEF (CHB). Ring-billed Gull: 8 Aug (1) Island 13, early west Tennessee; 13 Oct/24 Nov (6/17) TEC, 3 Nov (1 ad) PEF (MLG); 19 Oct/5 Nov (24/108) REL, LKC (MAG); 2 Nov (11) HWR (MAG, DoD). BLACK-LEGGED KITTIWAKE: 13-17 Nov (1, first year) PKD (DJS*, JRW, m.ob.), first local record. Caspian Tern: 12 Aug (9) REL, LKC (MAG, EKW). Common Tern: 10/16 (3/3) Island 13 (MAG). Forster's Tern: 8 Aug (1) Island 13 (MLG); 25 Aug (3) Island 13 (MTOS); 10 Sep (1) Island 13 (MAG); 5 Oct (1) PEF (RWP); 15/18 Nov (1) PEF (TAF, MLG). Black Tern: 17 Aug (12) Island 13 (WGC); 10 Sep (2) Island 13 (MAG, JCG), 14 Sep (2) PEF (MLG). Common Nighthawk: 3 Sep (150) MEM (VBR); 26 Sep (34) Trenton, GBC (MAG). Red-headed Woodpecker: 27 Oct (157) SFP, Fall Field Day, SBC (MTOS). Purple Martin: 8/13 Aug (2000+/300) Island 13 (MLG/MTOS). Tree Swallow: 13 Aug (200+) Island 21, DYC (MAG); 27 Oct (565) Fall Field Day, SBC (MTOS); 5 Nov (25,000+) REL, LKC (MAG), second highest count for area. Bank Swallow: 8/11 Aug (15/1,000) Island 13 (MLG/WGC); 13 Aug (1,000+) Island 21, DYC (MAG); 21 Sep (55+) CWR (JBC, HSH). Olive-sided Flycatcher: 8 Aug (1) DTC; 18 Aug (1) Ponderosa, DTC (CHB); 1 Sep (2) TEC (MGW, VBR, WRP, GRP, JBP, CHB). Willow Flycatcher: 31 Aug (1) Island 13 (MLG, TAF), identified by call. Fish Crow: 8 Aug (46) SFP (MAG); 6 Nov (5) MEM (WPP).

Wren-Blackbird: House Wren: 22 Sep (1) DTC (CHB); 9 Nov (1) TEC (MLG, MGW). Sedge Wren: 11 Sep (10) Iris Hill, SBC (JAF). Eastern Bluebird: 27 Oct (46 max) MDC (JBC, LVC). American Pipit: 26 Sep-EOP (1-16) PEF (MLG, RWP, MTOS), early SBC date. Solitary Vireo: 27 Oct (1) Fall Field Day, SBC (MTOS). Philadelphia Vireo: 24 Sep/2 Oct (1) Jackson, MDC (HSH, AHH). Blue-winged Warbler: 19/31 Aug (3/4) PEF (VBR/MGW, JEW). Tennessee Warbler: 27 Nov (1) PEF (CHB), late SBC; 15/19 Dec (1) DYC (WGC), late west Tennessee date. Nashville Warbler: 27 Nov (1) PEF (CHB, VBR), late west Tennessee and SBC. Northern Parula: 30 Oct (1) MEM (HBD), late west Tennessee and SBC date. Blackburnian Warbler: 30 Oct (1) Jackson, MDC (HSH, AHH), late west Tennessee record. Mourning Warbler: 26 Sep (1) PEF (MGW); 29 Sep (2) LHWR (DDP). Wilson's Warbler: 22 Sep (1) Atoka, Tipton Co. (DDP); 26 Sep (1) PEF (MLG). Yellow-breasted Chat: 15-19 Nov (1) MEM (Greg Keiran), late west Tennessee date. American Tree Sparrow: 9 Nov (1) TEC (MLG, MGW), early SBC record. Vesper Sparrow: 25 Oct (11 max) Britton Ford, Henry Co. (JBC, HSH); 27 Oct (7) Fall Field Day, north SBC (DDP); 23 Nov (3) PEF (MTOS). Grasshopper Sparrow: 3 Aug (28 max) Savannah Bottom, HDC (DJS). LeConte's

Sparrow: 27 Oct (1) Fall Field Day, north SBC (DDP); 3 Nov (1) Savannah Bottoms, HDC (GDJ). Song Sparrow: 11 Aug (1) TEC (RWP); 13 Aug (3) Island 21, DYC (MAG). Lincoln's Sparrow: 28 Sep (1) PEF (MGW, JEW); 12 Oct (1) Kennedy Park, MEM (MTOS); 27 Oct (1) Fall Field Day, SBC (MTOS); 9 Nov (1) TEC (MLG, MGW). Lapland Longspur: 8/25 Nov (8/15+) PEF (MLG). YELLOW-HEADED BLACKBIRD: 31 Aug (1 im) TEC (TAF, MLG*), third SBC record.

Locations: CWR-Chickasaw National Wildlife Refuge, Lauderdale Co.; DTC-Decatur Co.; DYC-Dyer Co.; FPP-Fort Pillow State Park, Lauderdale Co.; GBC-Gibson Co.; HDC-Hardin Co.; HWR-Hatchie National Wildlife Refuge, Haywood Co.; HYC-Haywood Co.; Island 13-Joe Echles Towhead, Lake Co.; LHWR-Lower Hatchie Wildlife Refuge, Lauderdale Co.; LKC-Lake Co.; MDC-Madison Co.; MEM-Memphis; PEF-Penal Farm, Shelby Co.; PKD-Pickwick Dam, Hardin Co.; PRI-President's Island, Memphis; REL-Reelfoot Lake, Lake and Obion Cos.; SBC-Shelby Co.; SFP- Shelby Forest Park, Shelby Co.; TEC-The EARTH Complex, Shelby Co.; TOF-T.O. Fuller State Park, Shelby Co.

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HIGHLAND RIM AND BASIN REGION — At the time of this report, a compiler for this region was not available. Observers are encouraged to submit unusual observations in the form of a Roundtable Note to the *Migrant* Editor.

CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION — This was a generally mild and dry autumn regionwide. Temperatures were near normal for the most part, except that late October and mid to late November registered 10-20 degrees above normal. Precipitation during August and November was slightly above average, while that for September and October was well below average (e.g. 0.3 inches made for the second driest October on record at Tri-cities Airport). Frontal systems grounded few waves of migrants, with one notable exception. A cold front on 8-9 November grounded many water birds in the northeastern corner of this region and the adjacent mountain region. Complete details of that fallout will be published separately.

The quality of birding this fall was graded as pretty fair to good by observers, despite the lack of most anticipated waves. Highlights include Northern Saw-whet Owl, a probable Rufous Hummingbird, several lingering yellowlegs and Pectoral Sandpipers, and several early warblers, in addition to the fallout mentioned above.

You may have noticed a change in the name of this region. The Cumberland Plateau has always been included with the Ridge and Valley for this region of The Season; but it has generally received much less coverage and attention. It is hoped that this new acknowledgement will stimulate bird records for the region.

Loon-Heron: Common Loon: 9 Nov (5/11) NWS/BOL (JBH, PHB, SHF, LN/RLK), ers. Pied-billed Grebe: 22 Aug (1) BLV (BGM), ers. Horned Grebe: 9 Nov (550) BOL (RLK), new high count for the state and 7 times previous local high. Double-crested Cormorant: 24 Aug (1) Rankin Bottom, COC (JAK); 13 Sep (1) AUS (RLK); 5 Oct/2 Nov (3/1) DOL, COC portion (JAK); 30 Oct (4) Cherokee Lake, Hamblen and

Hawkins Cos. portion (RLK); 9 Nov (54) NWS (JBH, PHB, SHF, LN), only 1 there next day; "increased reports" in the CHA area (RJH). Least Bittern: 4 Sep (1) Baylor Lake, CHA (Mary Lynn Buttram, WGH, RJH). Great Egret: 1-22 Aug (1) BLV (BGM); 3 Aug-20 Sep (1-3) AUS (RLK et al.); 8-11 Aug (1) NWS (JBH); 24 Aug/22 Sep (6/48) Rankin Bottom, COC (JAK); 20 Oct (28) JNC (Beth Hogan, SMS); 9 Nov (1) NWS (JBH, PHB, SHF, LN). Little Blue Heron: 1 Aug-5 Sep (1-2) BLV (BGM). Cattle Egret: 21 Sep (5 yg unable to fly), 23 Sep (60-62) Chickamauga Lake, Hamilton Co. (RJH), late breeding. Black-crowned Night-Heron: thru 27 Sep (1-8) AUS (RLK et al.); 4 Aug-Oct (1-5) CHA (WGH, RJH).

Waterfowl: Tundra Swan: 9 Nov (1) NWS (JBH, PHB, SHF, LN); 9-11 Nov (2) Nolichucky River, WGC (SMS). Snow Goose: 9 Nov (1 blue) Hiwassee River Area, Meigs Co. (WGH et al.); 25 Nov (1 white) BOL (JWC). Green-winged Teal: 15 Aug (3) LST (RLK), ties earliest JNC area record. Blue-winged Teal: 17 Sep (75) AUS (RLK), max. Canvasback: 17 Nov (1) JNC (JWN). Ring-necked Duck: 16 Nov (360) Jefferson Co. (JAK), max. Greater Scaup: 8 Nov (1) LST (FJA). Scaup sp: 9 Nov (900) BOL (RLK), very high count there. BLACK SCOTER: 9-11 Nov (3 females) BOL (RLK), 2nd local record. Bufflehead: 9 Nov (95) BOL (RLK), max. Hooded Merganser: 17 Nov (127) Middlebrook Lake, Bristol (JWC), max. Ruddy Duck: 9 Nov (81) BOL (RLK), new high count for JNC area.

Vulture-Crane: Black Vulture: 5 Oct (90) DOL, COC portion (JAK). Bald Eagle: 19 Sep (1) SMT (WGH); 20 Sep (1) Nickajack Lake, Marion Co (RJH). Northern Harrier: 24 Aug (1) JNC (JWB), ers. Peregrine Falcon: 19 Sep (1) LST (DEH). Virginia Rail: 2 Sep (3) GNC (Richard Nevius); 5 Sep (1) AUS (BLC); 26 Oct (1) BLV (Tommie L. Rogers). Sora: 11 Sep (1 found dead) Sullivan Co. (SMS); 27 Sep (1) AUS (RLK); 26 Oct (1) BLV (Tommie L. Rogers). Sandhill Crane: 9 Aug (1) HLC (WGH), ers.

Shorebirds: Lesser Golden-Plover: 8-9 Sep (1) LST (RLK et al.). Semipalmated Plover: 13 Oct (3) AUS (RLK), only report there. Killdeer: 21/23 Nov (185/175) BOL/LST (RLK), high numbers for JNC area. Greater Yellowlegs: several lingerers; 2 Nov (2) DOL, COC portion (JAK); 4-9 Nov (1) AMM (WGH); 6-9 Nov (1) NWS (JBH); 2-21 Nov (1) BOL (RLK), new late date for JNC area. Sanderling: 20 Sep (3) KSP (RJH). Western Sandpiper: 24 Aug (2) KSP (WGH, RJH); 25 Aug (3) LST (FJA); 2 Nov (12) DOL, COC portion (JAK). Baird's Sandpiper: 24 Aug (1) KSP (WGH, RJH); 11-13 Oct (1) LST (RLK, BLC). Pectoral Sandpiper: several lingerers, 2 Nov (20) DOL, COC portion (JAK); 4-6 Nov (1) AMM (WGH); Nov records at 3 WGC sites, last observed 23 Nov (2) LST (RLK), new late date for JNC area. Dunlin: 13 Oct (2) AUS (RLK), ers; 2-17 Nov (5) HLC (WGH); 2-21 Nov (7) BOL (RLK); 8-23 Nov (1-7) LST (FJA, JWN et al.); 9 Nov (3) NWS (JBH, PHB, SHF, LN). Stilt Sandpiper: 20 Sep (1) KSP (RJH). Dowitcher sp: 17 Aug (1) LST (BLC). American Woodcock: 25 Aug (1) AMM (WGH); 8 Sep-20 Nov (1-2) AUS (RLK); 26 Nov (6) Conklin, WGC (Andy Ammann).

Gull-Sapsucker: Ring-billed Gull: 27 Sep (5) AUS (RLK), ers. Caspian Tern: 24 Aug (2) KSP (RJH). Common Tern: 9 Nov (1) NWS (JBH, PHB, SHF, LN), late. Forster's Tern: 25 Sep (5) AUS (RLK); 9 Nov (1) NWS (JBH, PHB, SHF, LN), late. Black Tern: 18 Aug (10/4) AUS/LST (RLK/DEH, SMS), only reports. Barn Owl: 27 Sep (5 yg in nest in barn) Sulphur Springs, WGC (DEH), 2nd nesting at site this year; 28 Sep (1) GNC (fide JBH). NORTHERN SAW-WHET OWL: 10/21 Nov (1) GNC (PHB). Common Nighthawk: 15 Aug-26 Oct (4140) JNC (RLK). Ruby-throated Humming-

bird: 17 Oct (1/1) GNC/SMT (Herb and Cynthia Cragin/JSL), lrs. Selasphorus sp.: 13-14 Nov (1 female or im) JNC (fide Cathi Sullins, RLK), had been present for a few weeks. Yellow-bellied Sapsucker: 27 Sep (2) WGC (RLK), ers.

Flycatcher-Vireo: Least Flycatcher: 21 Sep (1 banded) AUS (RLK). Great Crested Flycatcher: 9 Sep (1) HLC (WGH), lrs. Purple Martin: 1 Aug (1200) HLC (WGH), max. Northern Rough-winged Swallow: 4 Oct (1) AUS (RLK), lrs. Bank Swallow: 28 Aug (100+) LST (RLK), max; 28 Sep (3) LST (JWN), lrs. Cliff Swallow: 23 Aug (350) LST (RLK), max; 28 Sep (2) LST (JWN), lrs. Barn Swallow: 11 Oct (1) LST (RLK), lrs. Red-breasted Nuthatch: 27 Sep (1) WGC (RLK), ers. Marsh Wren: 17 Sep/15 Oct (1/1) HLC (WGH); 27 Sep (1) AUS (RLK). American Pipit: 21 Sep (1) AUS (RLK), ers. Loggerhead Shrike: 15+ reports in WGC (LRHTOS). White-eyed Vireo: 30 Nov (1) Conklin, WGC (JWN), very late. Solitary Vireo: 3 Nov (1) SMT (JSL), lrs.

Warblers: Blue-winged Warbler: 10/11 Aug (1/1) HLC (WGH/JSL); 20 Sep (1) WGC (1) (DEH). Golden-winged Warbler: 28/31 Aug (1/1) HLC (JSL/WGH); 20 Sep (1) WGC (DEH). Tennessee Warbler: 23 Aug (1) AUS (BLC, GWS), ers. Orange-crowned Warbler: 21 Sep-23 Nov (7 reports) HLC (WGH, JSL); 15/19 Oct (2, 1 banded) WGC (RLK). Nashville Warbler: 27 Oct (1) SMT (JSL), lrs. Yellow Warbler: 20 Sep (1) AUS (RLK), lrs. Magnolia Warbler: 22 Aug (1) SMT (JSL), ers. Yellow-rumped Warbler: 28 Sep (1) HLC (WGH), ers. Blackburnian Warbler: 18 Aug (1) HLC (WGH), ers. Prairie Warbler: 15 Oct (1) WGC (RLK), lrs. Palm Warbler: 19 Nov (1) AUS (DEH), lrs. Cerulean Warbler: 3/13 Aug (1/1) HLC (JSL/WGH). Worm-eating Warbler: 19 Sep (1) AUS (RLK), lrs. Northern Waterthrush: 23 Aug (1) AUS (BLC, GWS), ers. Connecticut Warbler: 20 Sep (1) AUS (RLK); 27 Sep (1) GNC (PHB). Mourning Warbler: 27 Sep (1) JNC (BLC). Wilson's Warbler: 15 Oct (1) WGC (RLK), lrs. Canada Warbler: 7 Aug (1) SMT (JSL), ers.

Sparrow-Finch: Vesper Sparrow: 18 Sep (1) Blount Co. (JAK); 29 Oct/3 Nov (1) HLC (WGH). Savannah Sparrow: 1 Sep (1) LST (RLK), ers. Grasshopper Sparrow: 14 Oct (1) LST (RLK), lrs. Fox Sparrow: 12 Oct (1) HLC (WGH), ers. Lincoln's Sparrow: 27 Sep-27 Oct (3 reports, low) WGC (RLK, BLC, DEH). Swamp Sparrow: 27 Sep (2) AUS (RLK), ers. Bobolink: few reports in WGC (fide RLK); 24 Oct (1) HLC (WGH), lrs. Orchard Oriole: 11 Sep (1) HLC (WGH), lrs. Northern Oriole: 17 Sep (1) HLC (WGH), lrs. Purple Finch: 6 Nov (1) SMT (JSL), ers; very few reports.

Locations: AMM-Amnicola Marsh, Hamilton Co.; AUS-Austin Springs, Washington Co.; BLV-Brainerd Levee, Hamilton Co.; BOL-Boone Lake, Sullivan and Washington Cos.; CHA-Chattanooga; COC-Cocke Co.; DOL-Douglas Lake; GNC-Greene Co.; HLC-Hamilton Co.; JNC-Johnson City; KSP-Kingston Steam Plant, Roane Co.; LST-Limestone, Washington Co.; NWS-Nolichucky Waterfowl Sanctuary, Greene Co.; SMT-Signal Mountain, Hamilton Co.; WGC-Washington Co.

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EASTERN MOUNTAIN REGION — August had above normal precipitation, but the rest of the period was mostly dry. October was extremely dry with only a trace of precipitation. Good reports of waterfowl were received, including all three species of scoters. Large numbers of waterbirds were reported on 9 November. A Great White Heron was observed again at South Holston Lake at the same area one was seen the previous fall, *(The Migrant,* 63 (1):1). The find of the Season was a

Sprague's Pipit at the state line on Roan Mountain. This is the first occurrence of this species away from the Mississippi River area in Tennessee, and the first mountain record for North Carolina.

Loon-Duck: Red-throated Loon: 12 Nov (1) SHL (BLC). Common Loon: 18 Oct (5) SHL (BLC, JSW), ers; 9 Nov (78/10) WTL/WIL (RLK), max. Pied-billed Grebe: 9 Nov (42) SHL (BLC), max. Horned Grebe: 9 Nov (70/14) SHL/WTL (BLC/RLK), ers and max. Double-crested Cormorant: 21-29 Aug (1) SHL (BLC, JWC); 9 Nov (1) ERW (fide FJA); 24 Nov (1) SHL (TM). GREAT WHITE HERON: 29 Aug (1) SHL (JWC, JLS). Great Egret: 3/29 Aug (2/5) SHL (BLC); 22 Aug (1) RNC (RLK); 20 Oct (5) SHV (JLS). Little Blue Heron: 1 Sep (1) BVCC (FJA). Green-backed Heron: 13 Nov (1) ERW (RLK), lrs. Black-crowned Night-Heron: 21 Aug (1) SHL (BLC). Tundra Swan: 9 Nov (1) ERW (fide FJA). Snow Goose: mid-Sep-EOP (1 white) WIL (GOW, CFW, RLK, et al.), record early arrival. Wood Duck: 19 Sep (56) RNC (RLK), max. Green-winged Teal: 9 Nov (4) WTL (RLK), only report. American Black Duck: 9 Sep (1) RNC (RLK), ers. Northern Pintail: 18 Oct (1) SHL (BLC, JSW). Northern Shoveler: 9-21 Nov (1) ELI (GOW). Gadwall: 20 Sep (2) WIL (BLC, GWS, JSW), ers; 27 Sep-EOP (1) ERW (GWS et al.); 9 Nov (6) WTL (RLK); 24 Nov (29) WTR (TM). American Wigeon: 18 Oct (5) SHL (BLC, JSW), ers; 21 Nov (77) WTR (TM), max. Canvasback: 9 Nov (3) ERW (fide FJA). Redhead: 9 Nov (6) ERW (fide FJA). Ring-necked Duck: 26 Oct (1) WIL (CFW), ers; 14 Nov (260) WIL and WTR (TM), max. Greater Scaup: 9 Nov (1) WIL (RLK). Scaup sp: 9 Nov (1500) SHL (BLC), max; 9 Nov (140) WTL (RLK). BLACK SCOTER: 12 Nov (1 female) SHL (BLC), 3rd area record. Surf Scoter: 9 Nov (9) WIL (GOW, RLK). White-winged Scoter: 9 Nov (2) SHL (BLC). Common Goldeneye: 9 Nov (20) ERW (fide FJA). Bufflehead: 14 Nov (345) WIL (TM), max, high. Hooded Merganser: 4 Nov (11) SHV (JLS). Red-breasted Merganser: 9 Nov (44/22) SHL/WTL (BLC/RLK). Ruddy Duck: 9 Nov (57/18) SHL/WTL (BLC/RLK).

Osprey-Tern: Osprey: 27 Oct (1) RNM (RLK), lrs. Bald Eagle: 28 Aug (1 ad) SHL (JWC). Northern Harrier: 19 Sep (1) RNM (GOW), ers. Northern Goshawk: 27 Aug (1 ad) SHL (BLC). Broad-winged Hawk: 22 Sep (450) BBM (RM), max. Golden Eagle: 9 Nov (1 im) near SHL (BLC). Merlin: 19 Sep (1) RNM (GOW); 27 Sep (1) HOL, CAR (GOW); 24 Nov (1) SHL (TM). Peregrine Falcon: 7 Sep (1) RNM (LRHTOS); 20 Sep (1) UNM (RM). Wild Turkey: 26 Oct (3) HOL, Sullivan Co. side (John T. Williams). Sandhill Crane: 27 Sep (1) RNM (FJA, Cathi Sullins, Dee Eiklor, DEH), soaring, 3rd area record. Sora: 7 Sep (1 found dead) UNC (GWS). American Coot: 9 Nov (450) SHL (BLC), max. Greater Yellowlegs: 2-19 Nov (2) ELI (CFW, GOW, RLK). Dunlin: 10 Nov (2) ELI (FJA). Willet: 3 Aug (1) SHL (BLC). American Woodcock: 16-27 Nov (as many as 12 flushings per day) ERW (Andy Ammann), 4 shot on the 23rd. Laughing Gull: 27 Aug (1) SHL (BLC), 6th area record. Bonaparte's Gull: 9 Nov (50/125/200) WTL/SHL/ERW (RLK/BLC/GWS), high numbers. Herring Gull: 21 Nov (1) WTL (TM); 30 Nov (1) SHL (RPL), only reports. Caspian Tern: 29 Aug (4) SHL (JWC, JLS); 13 Sep (2) RNC (RLK). Forster's Tern: 31 Aug (16) SHL (BLC); 9 Nov (8) WTL (RLK), late.

Cuckoo-Vireo: Black-billed Cuckoo: 13 Aug (1) SHL (RPL). Yellow-billed Cuckoo: 14 Oct (1) HOL, CAR (RLK), lrs. Whip-poor-will: 7 Sep (1 singing) Great Smoky Mountains National Park (FJA). Red-headed Woodpecker: 8 Oct (1) ERW (GWS). Common Raven: 27 Sep (45) RNM (FJA et al.), passing by in small groups. Red-breasted Nuthatch: thru season at RNM. Blue-gray Gnatcatcher: 27 Sep (1) UNC

(BLC et al.), lrs. Veery: 20 Sep (1) WTL (BLC, GWS), lrs. American Pipit: 26/31 Oct (3/1) Round Bald, RNM (GOW/RLK). SPRAGUE'S PIPIT: 27 Oct (1) Round Bald, RNM (RLK*, CFW, DEH, Rusty Dunn), first record for the region. Loggerhead Shrike: 1-10 Aug (2) ELI (FJA). Solitary Vireo: 10 Nov (1) ERW (GWS), lrs. Warbling Vireo: 27 Sep (2) BVCC (BLC, GWS, JSW). Philadelphia Vireo: 8 Sep (1) RNM (BLC); 27 Sep (1) Ripshin Mountain, CAR (FJA).

Warbler-Siskin: Blue-winged Warbler: 8 Sep (1) RNM (BLC), only report. Golden-winged Warbler: 8 Sep (1) RNM (BLC), lrs. Tennessee Warbler: 7 Sep (80+) RNM (LRHTOS), max. Orange-crowned Warbler: 27 Sep (1) IMG (BLC, GWS, JSW); 27 Oct (2) RNM (RLK). Cape May Warbler: 1 Sep (1) RNM (FJA), ers. Black-throated Blue Warbler: 20 Oct (1) UNM (RM), lrs. Yellow-rumped Warbler: 20 Sep (1) WIL (BLC, GWS), ers. Palm Warbler: 7 Sep (1) RNM (LRHTOS), ers. Bay-breasted Warbler: 7 Sep (1) RNM (LRHTOS), ers; 19 Oct (1) Milligan College, CAR (FJA), lrs. Worm-eating Warbler: 27 Sep (2) IMG (BLC, GWS, JSW), lrs. Connecticut Warbler: 27 Sep (1) BVCC (BLC, GWS, JSW). Wilson's Warbler: 3 Sep (1 found dead) ERW (GWS); 26 Sep (1 banded) BBM (GRM). Vesper Sparow: 22 Aug (1) Round Bald, RNM (RLK). Lincoln's Sparrow: 20 Sep (1) WIL (BLC, GWS); 22 Sep (1) BBM (GRM). Rusty Blackbird: 23 Nov (1) Twin Springs, RNM (GOW). Purple Finch: 27 Oct (3/1) RNM/SHL (RLK/RPL), ers. Pine Siskin: 27 Oct (30) RNM (RLK), ers, no low elevation reports.

Locations: BBM-Big Bald Mountain, Unicoi Co.; BVCC-Buffalo Valley Country Club, Unicoi Co.; CAR-Carter Co.; ELI- Elizabethton; ERW-Erwin; HOL-Holston Mountain; IMG-Iron Mountain Gap, Unicoi Co.; RNC-Roan Creek, Johnson Co.; RNM-Roan Mountain, Carter Co.; SHL-South Holston Lake area, Sullivan Co.; SHV-Shady Valley, Johnson Co.; WIL-Wilbur Lake, Carter Co.; WTL-Watauga Lake, Carter and Johnson Cos.; WTR-Watauga River, Carter Co.; UNC-Unicoi Co.; UNM-Unaka Mountain, Unicoi Co.

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The Migrant, 63 (2): 59-63, 1992.

THE SEASON

Robert P. Ford, Editor

WINTER: 1 DECEMBER 1991 - 28 FEBRUARY 1992

This was an exciting season to be in the field, not so much for new state records, but for species occurring out of season in Tennessee. Among the notable winter records for the state were a Broad-winged Hawk in west Tennessee, and Wilson's Warbler, Black-throated Blue Warbler, and Summer Tanager in east Tennessee. Out of season records seemed to be the trend across the entire eastern United States, and several new winter dates were recorded. This may be due partly to the mild weather conditions of the winter; eastern Tennessee had temperatures well above normal and precipitation generally below normal. Severe cold fronts and snow were rare, even in the eastern mountains.

Although the season was mild, a few northern species arrived in Tennessee, and for some, in high numbers. For example, Rough-legged Hawks occurred in different parts of the state, including one group of five in west Tennessee. American Tree Sparrows made a fairly good showing over most of the state as well. However, finches and siskins were generally in lower numbers than usual.

The rarest bird of the season was possibly the Varied Thrush, discovered near the same location in Hamilton Co. as last year. Another surprise was the American White Pelican that occurred in northeast Tennessee. Many other notable observations are to be found in this season report; I encourage you to enjoy it!

Abbreviations used in this report include: ad-adult, Co.-County, CBC-Christmas Bird Count, EOP-end of period, et al.-and others, fide-reported by, im-immature, lrs-latest reported sighting, max-maximum count in one day, m.ob.-many observers, ph-photograph available, USFWS-U.S. Fish and Wildlife Service, *-written details submitted, WRRS-Winter Roadside Raptor Survey.

WESTERN COASTAL PLAIN REGION — Many observers were in the field this season, as the region had above average temperatures and below average rainfall. The lakes and bottomland hardwood forests maintained open water all season; therefore, waterfowl was plentiful with 21 species observed in our region. While the raptor roadside survey and field observations recorded many hawks, office workers in downtown Memphis enjoyed a Peregrine Falcon whose lunch time was about 1:30 every afternoon. The more exciting winter visitors were the Rough-legged Hawks observed in Haywood and Dyer counties. The Broad-winged Hawk was the third documented winter record for the state and the first for west Tennessee. Great Horned Owls were on the nest in early January, possibly because of the mild temperatures.

Loon-Falcon: Common Loon: 30 Nov (1) PEF (VBR). Horned Grebe: 16 Feb (70) PLP (SJS, GSK, WAW, CEW); 23 Feb (5) REL, LKC (MTOS). Double-crested Cormorant: 15 Dec (100) MEM, CBC, SBC (MTOS); 17 Dec (500+) REL CBC (MAG); 29 Dec (47+) North Lake, SBC (DoM, VBR, CHB, MGW). Great Egret: 29 Feb (1) REL, OBC (MAG, BLS); 29 Feb (2) CWR (JBC, LVC). Tundra Swan: 1 Dec-16 Feb (1-4) Lauderdale Refuge, LDC (Willis Wheeler, WGC, GBB, Leif Anderson). Canada Goose: 17 Dec/

23 Jan (47,000/20,000) REL, OBC; 30 Jan (25,000) REL, OBC (MAG). American Black Duck: 30 Jan (2,000) REL, OBC (MAG). Mallard: 17 Dec (94,000) REL, LKC and OBC (USFWS); 30 Jan (25,000) REL, OBC (MAG); 23 Feb (10,000) REL, LKC (MTOS). Common Merganser: 30 Jan (15) REL, OBC; 5 Feb (1) Lake Isom, LKC (MAG). Red-breasted Merganser: 17 Dec (1) REL, LKC (MAG); 11 Jan (2) CWR (DDP); 30 Jan (2) REL, OBC (MAG). Ruddy Duck: 17 Dec (2500+) REL, LKC and OBC (MAG); 29 Feb (500+) REL, LKC (MAG, BLS). Turkey Vulture: 20 Dec (1) MEM (RWP). Osprey: 15 Dec (2) North Lake, SBC (Howard Vogel), second west Tennessee and SBC record for Dec. Bald Eagle: 20 Dec (1 ad) PEF (Jay Conrad, fide OKM); 11 Jan (4) CWR (MTOS); 12 Feb (1 ad) MEM (Jane Wadlington, fide LCC); winter count at REL, LKC and OBC (64 ad, 47 im), HWR (3 ad, 1 im), Pickwick State Park, Hardin Co. (3 ad, 3 im), TNWR (8 ad, 8 im); 9 Mar (3 nests under construction) REL, last year there were 17 nests state wide with 18 fledged young (Bob Hatcher, TWRA). Sharp-shinned Hawk: 15 Dec (2) MEM CBC (MTOS), 28 Dec (1) Bartlett, SBC (DoM); 29 Dec (1) TEC (DoM, VBR, CHB, MGW); 5 Jan (1) PEF (VBR, CHB); 15 Jan (1) WRRS, SBC (VBR, SLL, BHW, HBD, CHB). Cooper's Hawk: 15 Dec (1) MEM CBC (MTOS); 17 Dec (1) REL, OBC (MAG); 29 Dec (1) PEF (CHB); 29 Jan (1) WRRS, Hardin Co. (VBR, SLL, BHW, HBD, CHB); 5 Feb (1) Coffey Grounds, MEM (BBC, LCC). NORTHERN GOSHAWK: 15 Feb (1) Farmington Golf Course, SBC (MLG). Red-shouldered Hawk: 5 Dec (1) PEF (MLG); 15 Dec (4) MEM CBC (MTOS); 17 Dec (12) REL CBC (MAG); 26 Dec (4) REL, LKC (MLG, TAF); 28 Dec (1) Jackson CBC (JTOS); 10 Jan (1) WRRS, HYC (JBC, LVC); 11 Jan (1) CWR (MTOS); 23 Jan (1) CWR (MTOS); 23 Jan (5) REL, OBC (MAG); 22 Feb (1) TEC (VBR, MGW). Broad-winged Hawk: 20 Dec (1 im) Millington, SBC, flew into a window, died a day later at Memphis Zoo (OKM), third documented winter record. "Krider's Red-tailed Hawk": 9 Feb (1) PEF (MLG). "Harlan's Red-tailed Hawk": 21 Feb (1) MEM (OKM, MGW), banded. Rough-legged Hawk: 6 Dec (3) WRRS, HYC (JBC, LVC); 31 Dec (1) southwest DYC (VBR, CHB, Barbara Bullock, MGW); 6 Jan (5) WRRS, HYC (JBC, LVC); 10 Jan-17 Feb (1) Newbern, DYC (WGC, DoM). American Kestrel: 15 Dec (27) MEM CBC (MTOS); 11 Jan (7) LDC, (6) Tipton Co. (MTOS); 15 Feb (7) DYC (WGC). Peregrine Falcon: 22 Jan-EOP (1) MEM (CHB, OKM, m.ob.).

Yellowlegs-Blackbird: Lesser Yellowlegs: 16 Feb (4) TEC (VBR, MGW); 27 Feb (1) PEF (MLG), early date SBC. Least Sandpiper: 4/5 Jan (10) TEC (Leif Anderson, MLG); 25 Jan (1) PEF (MLG). American Woodcock: 9 Feb (1-2 calling) TEC (MLG); 12-13 Feb (2-4 pairs) Iris Hill Farm, north SBC (JAF); 14 Feb (4 pair) Birdsong, north SBC (DPB, DoM, CHB, VBR, MGW). Bonaparte's Gull: 17 Dec (15) REL CBC, LKC (MAG); 26 Dec (150) REL, LKC (MLG, TAF); 23 Jan (22) REL, LKC (MAG). Ring-billed Gull: 17 Dec (600+) REL CBC (MAG); 26 Dec (450) REL, LKC (MLG, TAF); 28 Dec (2) REL (MAG, Howard Davis); 9 Feb (65+) McKellar Lake, SBC (MLG); 15 Feb (approx. 500) REL, LKC (WGC); 16 Feb (1,000) REL, LKC (SJS, GSK, WAW, CEW); 23 Jan (400+) REL, LKC (MAG); 23 Feb (350) REL, LKC (MTOS). Herring Gull: 17 Dec/23 Jan (22/6) REL, LKC (MAG). Ringed Turtle-Dove: 1 Mar (on nest) MEM (Francis Dowdy), presumed escapes. Great Horned Owl: 5 Jan/29 Feb (nest/2 yg) PEF (VBR, MGW, CHB); 29 Feb (nest/3 yg) Iris Hill, north SBC (JAF). Short-eared Owl: 17 Dec (1) REL, LKC (MAG). Tree Swallow: 17 Dec (4) REL CBC (DDP). American Crow: 28 Dec (16,000) Jackson CBC (JTOS). Fish Crow: 5 Feb (10) Lake Isom, LKC (MAG). House Wren: 15 Dec (1) MEM CBC (MTOS); 2/9 Feb (3/2) Chester Co. (Milton Tucker, Patricia Tucker). Sedge Wren: 5-29 Jan (1) PEF (MLG, VBR, MGW); 9 Feb (1) PEF (MLG). American Pipit: 11 Jan (6) CWR (MTOS); 16 Jan

(1) PEF (VBR); 20 Jan (1) PEF (MLG). Cedar Waxwing: 30 Jan (approx. 300) MEM (MLG); 25 Feb (600) MEM St. Univ. campus, SBC (RWP). Tennessee Warbler: 26 Dec (1) DYC (WGC), fourth winter state record, first west Tennessee winter record. Orange-crowned Warbler: 16 Feb (1) MEM (RWP). Pine Warbler: 13 Feb (2) PEF (DoM, MGW); 15 Feb (8) Farmington Golf Course, SBC (MLG); 26 Feb (4) PEF (BHW, HBD). American Tree Sparrow: 26 Dec (55+) Airpark Inn, REL, LKC (MLG, TAF); 15 Feb (7) REL, LKC (SJS, GSK, WAW, CEW); 23 Feb (8) REL, LKC (MTOS). Vesper Sparrow: 20 Jan-12 Feb (4-1) PEF (DoM, MGW); 9/23 Feb (5/15+) PEF (MLG). LeConte's Sparrow: 15 Dec (55+) MEM CBC (MTOS); 31 Jan (1) PEF (MLG); 19/23 Feb (1) PEF (MLG, VBR). Lincoln's Sparrow: 29 Dec (1) PEF (CHB). Smith's Longspur: 15 Dec (1) MEM CBC (MTOS); 19 Jan (3) Baker Air Field, north SBC (MLG, DDP, VBR, MGW). Lapland Longspur: 5/7 Jan (7+) TEC (MLG, DoM, VBR). Western Meadowlark: 23 Feb-EOP (1) PEF (MLG, MGW). Rusty Blackbird: 22 Jan-5 Feb (4-6) PEF (VBR, MLG); 5 Feb (1) SFP (HBD, VBR, CHB); 9/16 Feb (25/55+) PEF (MLG). Brewer's Blackbird: 9 Feb (1) PEF (MLG).

Locations: CWR-Chickasaw National Wildlife Refuge, Lauderdale Co.; DYC-Dyer Co.; HWR-Hatchie National Wildlife Refuge, Haywood Co.; HYC-Haywood Co.; LDC-Lauderdale Co.; LKC-Lake Co.; MEM-Memphis; OBC-Obion Co.; PEF-Penal Farm, Shelby Co.; PLP-Paris Landing State Park, Henry Co.; REL-Reelfoot Lake, Lake and Obion Cos.; SBC-Shelby Co.; SFP-Shelby Forest Park, Shelby Co.; TEC-The EARTH complex, Shelby Co.; TNWR-Tennessee National Wildlife Refuge, Henry and Benton Cos.

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HIGHLAND RIM AND BASIN REGION — No report is available this season. Observers are encouraged to submit unusual observations in the form of a Roundtable Note to the *Migrant* Editor.

CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION — Following a mild autumn, winter continued mild throughout, with a brief cold snap in mid-January. The National Weather Service reported this as the warmest winter on record at many stations. An "Alberta Clipper" on 15-16 January brought near zero lows and the season's only snowfall to the northeastern portion of the region. Precipitation during December was well above average, with Johnson City's 6.7 inches being twice the norm. January and February combined were about 1 inch below normal rainfall.

Lingering of fall migrants, mostly passerines, seemed to be the most noticeable trend in birdlife this winter, but a few unexpected northern visitors put in an appearance as well. The cream of the lingerers were Blue-winged Teal, Sedge Wren, Wilson's Warbler, and Summer Tanager. Considering the mild conditions, this list could have been longer (for instance, no Common Yellowthroats were reported). Northern Goshawk, Rough-legged Hawk, and American Tree Sparrow are more typical of cold, snowy winters, although two of these apparently were associated with the mid-January cold snap. The encore performance of a Varied Thrush highlighted the season. Waterfowl and finches were generally scarce.

Loon-Merganser: Common Loon: 4 Dec (16) BOL (SMS), only report there. AMERICAN WHITE PELICAN: the bird seen on South Holston Lake (see Eastern Mountain

Region report) was apparently seen downstream on BOL on 24-27 Dec (fide JWC). Double-crested Cormorant: 1 Jan (9) Nickajack Lake, Marion Co (RJH); 26 Jan (6) KPT (RLK). Green-backed Heron: 1 Jan (1) HLC (WGH). Black-crowned Night-Heron: up to 8 all season at KPT (RLK, SMS). Tundra Swan: the 2 ad seen in early Nov on the Nolichucky River in WGC wintered at that site until 1 Mar (RLK); 12 Dec-15 Mar (1 im) farm pond, LST (RLK, m.ob.), 2nd and 3rd over-wintering records in JNC area. Snow Goose: 14 Dec (1 white) CHA (WGH). Blue-winged Teal: pair (male healthy, female apparently had injured wing) lingered on farm pond at LST until 11 Jan, just before pond briefly froze over (RLK, m.ob.), 2nd winter record in JNC-Elizabethton area. Northern Shoveler: 25 Jan (12) Nolichucky Waterfowl Sanctuary, Greene Co (JBH, et al.). Gadwall: 26 Jan (50) KPT (RLK), good count there. Canvasback: 21 Dec-1 Jan (49) Nickajack Lake, Marion Co (RJH). Oldsquaw: 26 Jan (1) KPT (RLK). Hooded Merganser: built up to 200 on Middlebrook Lake in Bristol by 17 Dec, dropped to just a few shortly after (JWC).

Vulture - Owl: Black Vulture: roost sites near BOL and Bristol each had 100-150 birds (RLK, JWC). Northern Harrier: up to 6 all season at PHB (DEH et al.), good count for area. NORTHERN GOSHAWK: 14 Jan (1 im) CHA (WGH). Red-tailed Hawk: 13 Jan (1 dark morph) WGC (DEH). ROUGH-LEGGED HAWK: 27 Dec-22 Feb (1) Lick Creek, Greene Co (Richard Nevius). Golden Eagle: 24 Dec (1 ad) WGC (DEH). Peregrine Falcon: 6, 9 Jan (1) LST (JWB). Dunlin: 21 Dec, 4 Jan (1) BOL (RLK); 1 Jan (16) HLC (WGH). Bonaparte's Gull: 28 Nov (258) Cherokee Dam, Grainger and Jefferson Cos. (SMS). Barn Owl: reported at 4 regular sites in WGC (DEH). SHORT-EARED OWL: 1 Jan (1) Bowmantown, WGC (Ken Ripley, RLK), injured, but died, specimen to Milligan College (4th record in JNC-Elizabethton area); 12 Jan-EOP (1) PHB (DEH et al.), 2nd straight winter at site.

Passerines: Horned Lark: up to 16 all season at LST (LRHTOS), with singing males there and at Tri-cities Airport, SLC, in mid-Feb (RLK); 22 Feb (1 singing) PHB (RLK); 22 Feb (2) Sequatchie Co. (RJH). House Wren: 17 Jan (1) PHB (JWN); 19 Jan, 3 Feb (1) WGC (JWB). Sedge Wren: 13 Jan/22 Feb (1) PHB (RM/LRHTOS), 1st winter record in northeast Tennessee. VARIED THRUSH: 11 Feb (1 male) HLC (RJH, et al.), 2nd state record, probably same bird as last winter. American Robin: very numerous all season in JNC area (LRHTOS). Gray Catbird: 3 Feb (1) WGC (BLC). Brown Thrasher: wintered at 4+ sites in WGC, above average (LRHTOS). Palm Warbler: 31 Dec-EOP (1) Greeneville (PHB); 7 Jan (4) Cherokee Dam, Grainger and Jefferson Cos. (DEH). WILSON'S WARBLER: 26 Dec (1 male) Greeneville (David Hume*), 1st winter record in state. Yellow-breasted Chat: 21 Dec-8 Jan (1) CHA (WGH). Summer Tanager: 31 Dec-2 Jan (1 female) Signal Mountain, HLC (Johnny T. Parks), about 5th winter record in state. American Tree Sparrow: 12-13 Jan (3) PHB (TM, RM). Fox Sparrow: seemed to be in slightly above average numbers in JNC area (RLK). Purple Finch: very scarce all season, virtually no feeder reports in JNC area (LRHTOS). Pine Siskin: a few scattered birds in HLC (JSL, WGH) were the only ones reported.

Addenda: Ringed Turtle-Dove: 18 Aug (1) Bluff City, SLC (Bert Hale); 17 Dec (2) JNC (JWB); presumed escapes.

Locations: BOL-Boone Lake, Sullivan and Washington Cos.; CHA-Chattanooga; HLC-Hamilton Co.; JNC-Johnson City; KPT-Kingsport (on south fork of Holston River); LST-Limestone, Washington Co.; PHB-Phipps Bend, Hawkins Co.; SLC-Sullivan Co.; WGC-Washington Co.

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EASTERN MOUNTAIN REGION — This was a very mild winter with temperatures averaging well above normal. Temperatures in February were over 5 degrees above normal. Nearly seven inches of rain in December was well above normal. January and February were dry, each being about an inch below normal. There was no significant snowfall.

After high numbers of waterfowl in the fall, their numbers were relatively low in the winter. Large flocks of American Robins seemed to be everywhere, with most Christmas counts having record numbers. A good find this period was a Black-throated Blue Warbler on the Elizabethton Christmas count.

Loon - Gull: Common Loon: Dec-Jan (5-7) WTL (RLK); Jan (7-14) SHL (RLK, BLC). Pied-billed Grebe: 7 Jan (23) SHL (RLK), max. Horned Grebe: 25 Dec (4) SHL (JWB); 7 Jan (3) SHL (RLK); 12 Jan (2) WTL (RLK). AMERICAN WHITE PELICAN: 21-23 Dec (1) SHL (Jay Johnson, JWC, JLS, et al), 2nd record for northeast Tennessee. Snow Goose: late Nov (1, shot) CAR (fide FJA), same bird as previously reported at WIL. American Black Duck: very scarce at WIL. Northern Shoveler: 16 Feb (1) RIP (TM). Redhead: thru period (1, female) ERW (GWS, FJA). Greater Scaup: thru period (2) WIL (FJA et al). Common Goldeneye: 4-14 Jan (1 female) ERW (GWS, RLK); 15 Jan (3) SHL (RLK). Bufflehead: 6 Jan (110) WIL (RLK), max; 7 Jan (70) SHL (RLK). Hooded Merganser: 16-22 Feb (2-7) RIP (TM, RLK, FJA). Black Vulture: thru period (50-100) SHL (RPL). Bald Eagle: 29 Dec (1 im) SHL (JWC, Tom Laughlin, Alice Nair). Wild Turkey: 26 Jan (20) UNM (RM). Common Snipe: 2-5 regular along WTR (RLK, FJA); 10 Feb (2) ERW (JWN). American Woodcock: 15 Dec (1) Hunter Swamp, CAR (JWC); 22 Dec (1) RIP (FJA); ELI & RMN CBCs. Bonaparte's Gull: 7 Jan (50) SHL (RLK), max, not seen after mid Jan.

Owl-Siskin: NORTHERN SAW-WHET OWL: 22 Feb (1) UNM (FJA, Cathi Sullins), first record for this location. Common Raven: 15 Dec (20-25) ELI dump (JWC, RM, Ken Hale), max, high number; 30 Jan (16) RNM (RLK), all in one group. Carolina Chickadee: 22 Dec (2) RNM CBC (RLK, et al.), at 5600 ft elevation. Red-breasted Nuthatch: thru period (10-16) on RNM and UNM. American Robin: very numerous all season, CBC record counts for Bristol, ELI, and RNM. Brown Thrasher: 22 Dec (1) RNM CBC at RIP (FJA), first for count; 12 Jan (1) Butler, JOC (RLK). BLACK-THROATED BLUE WARBLER: 15 Dec (1 female) Holston Mtn., Sullivan Co. side, ELI CBC (JWC, RM, Ken Hale), first winter record in state. Pine Warbler: 21 Feb (1, singing) WIL (DEH), ers. White-crowned Sparrow: 22 Dec (1) RNM CBC (FJA), first for count. Purple Finch: 2-5 at SHL thru period (RPL) otherwise, very scarce. Red Crossbill: 22 Dec (4) RNM CBC (RLK); 16 Feb (2) UNM (FJA). Pine Siskin: 30 Jan (300) RNM (RLK), max, present here thru EOP; up to 35 at UNM (RM). Evening Grosbeak: no reports.

Locations: CAR-Carter Co.; ELI-Elizabethton, Carter Co.; ERW-Erwin, Unicoi Co.; JOC-Johnson Co.; RIP-Ripshin Lake, Carter Co.; RNM-Roan Mountain, Carter Co.; SHL-South Holston Lake, Sullivan Co.; UNM-Unaka Mountain, Unicoi Co.; WIL-Wilbur Lake, Carter Co.; WTL-Watauga Lake, Carter and Johnson Cos.; WTR-Watauga River, Carter Co.

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BBC - Ben B. Coffey
LCC - Lula C. Coffey
JWC - J. Wallace Coffey
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BLC - Brian L. Cross
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MLG - Murray L. Gardler
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JCG - J. Christopher Greene
WGH - William G. Haley
RJH - R. John Henderson
AHH - Allen H. Hight
HSH - Helen S. Hight
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DEH - Dan E. Huffine
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GSK - Graham S. Kash
RLK - Richard L. Knight
JAK - J. Anthony Koella
SLL - Selma L. Lewis
RPL - Richard P. Lewis
JSL - Jonnie Sue Lyons
OKM - O. Knox Martin
GRM - George R. Mayfield
RM - Rad Mayfield
BGM - Barbara G. McMahan
TM - Tom McNeil
DoM - Dollyann Myers
JWN - Jerry W. Nagel
LN - Linda Northrop
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GRP - George R. Payne
WPP - William P. Peeples
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CEW - Catherine E. Walden
JEW - James E. Waldron
MGW - Martha G. Waldron
GOW - Gary O. Wallace
JSW - Jim and Shirley Wayland
CFW - C. Frank Ward
DLW - Dick L. Whittington
EKW - Eddie K. Wilbanks
BHW - Barbara H. Wilson
JRW - Jeff R. Wilson
MTOS - Memphis Chapter, TOS
JTOS - Jackson Chapter, TOS
LRHTOS-Lee R. Herndon Chapter, TOS
USFWS- U.S. Fish and Wildlife Service

INSTRUCTIONS TO AUTHORS

The Migrant records observations and studies of birds in Tennessee and adjacent areas. Most articles are written by members of the Tennessee Ornithological Society.

SUBMISSIONS: The original and, if feasible, two copies of the manuscript should be sent to the Editor: J. Wallace Coffey, 100 Bellebrook Dr., Bristol, TN 37620. Manuscripts that have been published in other journals should not be submitted.

MATERIAL: The subject matter should relate to some phase of Tennessee ornithology. It should be original, factual, concise, and scientifically accurate.

STYLE: Both articles and short notes are solicited; recent issues of *The Migrant* should be used as a guide in the preparation of manuscripts. Where more detail is needed, reference should be made to the *CBE Style Manual*; this book is available at many public libraries and from the Council of Biology Editors, Inc., 111 East Wacker Drive, Suite 3200, Chicago, IL 60601-4298.

COPY: Manuscripts should be typed *double spaced* on 8.5 x 11" paper with adequate margins for editorial notations. Tables should be prepared on separate sheets with appropriate title and column headings. Photographs intended for reproduction should be sharp with good contrast on glossy white paper; black and white photographs will usually reproduce better than color photographs. Weights, measurements, and distances should be in metric units. Dates should be in "continental" form (e.g., 16 March 1992). Use the 24-hour clock (e.g., 0500 or 1900).

NOMENCLATURE: The scientific name of a species should be given after the first use of the full common name in the text. The scientific name should be underlined and in parentheses. Names should follow the A.O.U. Check-list of North American Birds (sixth edition, 1983, or supplements).

TITLE: The title should be concise, specific, and descriptive.

ABSTRACT: Manuscripts of five or more typed pages should include an abstract. The abstract should be less than 5% of the length of the manuscript. It should include a brief explanation of why the research was done, the major results, and why the results are important.

LITERATURE CITED: List all literature citations in a Literature Cited section at the end of the text. Text citations should include the author and year.

IDENTIFICATION: Manuscripts including reports of rare or unusual species or of species at atypical times should be submitted to the TOS Bird Records Committee. Verifying evidence should include: date, time, light and weather conditions, exact location, habitat, optical equipment, distance, behavior of bird, comparison with other similar species, characteristic markings, experience of observer, other observers verifying the identification, and reference works consulted.

REPRINTS: Reprints are available to authors on request. Billing to authors will be through the TOS Treasurer.

SEASON REPORTS: Observations that are to be considered for publication in The Season section should be mailed to the appropriate Regional Compiler. Consult a recent issue of *The Migrant* for the name and address of the compilers.

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NOTICE TO RESEARCHERS

Several references in this issue include dates later than the cover date of June 1992. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

(Vol. 63, 1992) [ACTUAL PRINTING DATE: 9 September 1993]

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THE MIGRANT

PUBLISHED BY THE
TENNESSEE ORNITHOLOGICAL SOCIETY
(ISSN 0026-3575)
P.O. Box 171381
Memphis, TN 38187-1381

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